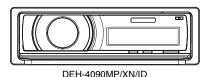
Pioneer sound.vision.soul





ORDER NO. CRT4033

CD RECEIVER

DEH-4090MP,XN/JD DEH-6010MP,XN/JD

This service manual should be used together with the following manual(s):

	Model No.	Order No.	Mech.Module	Remarks
(CX-3195	CRT3815	S10.5COMP2	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfe.

Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

Safety Precautions for those who Service this Unit.
 When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

Caution:

- 1. During repair or tests, minimum distance of 13 cm from the focus lens must be kept.
- 2. During repair or tests, do not view laser beam for 10 seconds or longer.

DEH-4090MP/XN/ID

[Important Check Points for Good Servicing]

in this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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	11.4 PANEL UNIT	
	10 ELECTRICAL RADTOLIST	CE

1. SERVICE PRECAUTIONS

1.1 SERVICE PRECAUTIONS



- You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
- Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
- To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
- After replacing the pickup unit, be sure to check the grating.
- Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
- Sheet (Mechanism cover), CNM9404 can not be reused if you remove it.

1.2 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.

 Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C. Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

• Parts numbers of lead-free solder:

GYP1006 1.0 in dia.

GYP1007 0.6 in dia.

GYP1008 0.3 in dia.

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2. SPECIFICATIONS 2.1 SPECIFICATIONS

DEH-4090MP/XN/ID

Groundi Max. cu	ower sourceng systemrrent consumption	(allowable voltage range 12.0 V to 14.4 V DC) Negative type
	current	
	ions (W \times H \times D):	
<i>D</i>	•	178 mm × 50 mm × 162 mm
D	Nose	188 mm × 58 mm × 14
_	Chassis	178 mm × 50 mm × 162 mm
Weight	Nose	170 mm × 46 mm × 14
Audio		
Maximu	m power output	$0.050 \text{ W} \times 4$ $0.050 \text{ W} \times 2/4 \Omega + 70 \text{ W} \times \Omega$ (for subwoofer)
Continu	ous power output	22 W $ imes$ 4 (50 Hz to 15 00 Hz, 5% THD, 4 Ω load, be channels driven)
Load im	pedance	
	max output level er (3-Band Paramet	2.2 V
LOV		40/80/100/160 Hz
	Q Factor	0.35/0.59/0.95/1.15 (+6 c when boosted)
Mic	Gaind	±12 dB
		200/500/1k/2k Hz 0.35/0.59/0.95/1.15 (+6 c when boosted)
LUa	Gain	±12 dB
Hig		3.15k/8k/10k/12.5k Hz
	Q Factor	0.35/0.59/0.95/1.15 (+6 c when boosted)
Loudnos	Gainss contour:	±12 aB
		+3.5 dB (100 Hz), +3 dE
		kHz) +10 dB (100 Hz), +6.5 d
		+ 10 dB (100 Hz), + 6.0 d (10 kHz) + 11 dB (100 Hz), + 11 dl
Hio		

HPF:
Frequency 50/63/80/100/125 Hz
Slope12 dB/oct
Subwoofer (mono):
Frequency 50/63/80/100/125 Hz
Slope18 dB/oct
Gain+6 dB to -24 dB
PhaseNormal/Reverse
Bass boost:
Gain+12 dB to 0 dB

CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal-to-noise ratio	94 dB (1 kHz) (IEC-A net-
	work)
Number of channels	2 (stereo)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11 (2ch
	audio)
	(Windows Media Player)
WAV signal format	Linear PCM & MS ADPCM
	(Non-compressed)

FM tuner

Frequency range87.5 MHz to 108.0 MHz
Usable sensitivity
S/N: 30 dB)
Signal-to-noise ratio75 dB (IEC-A network)

AM tuner

Frequency range531 kHz to 1 602 kHz (9 kHz)
530 kHz to 1 640 kHz (10
kHz)
Usable sensitivity 18 µV (S/N: 20 dB)
Signal-to-noise ratio 65 dB (IEC-A network)



Specifications and the design are subject to modifications without notice due to improvements.

Genera	al		HPF:	
	wer source	. 14.4 V DC	Frequency	
		(allowable voltage range:	Slope	12 dB/oct
		10.8 V to 15.1 V DC)	Subwoofer (mono):	
	ng system	. Negative type	Frequency	
	rent consumption		Slope	
			Gain Phase	
•	current	. 5 mA or less	Bass boost:	. Normal/Neverse
Dimensi DIN	ons (W \times H \times D):		Gain	. +12 dB to 0 dB
	Chassis	. 178 mm \times 50 mm \times 162	CD player	
	Nace	mm		. Compact disc audio system
D	Nose	. 188 mm × 58 mm × 14 mm	Usable discs	. Compact disc
D	Chassis	. 178 mm × 50 mm × 162	Signal-to-noise ratio	.94 dB (1 kHz) (IEC-A net-
	C1103313	mm		work)
	Nose	. 170 mm × 46 mm × 14 mm	Number of channels	
Weight .			MP3 decoding format	
_		<u> </u>	WMA decoding format	. Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio)
Audio				(Windows Media Player)
Maximu	m power output		WAV signal format	
		$50 \text{ W} \times 2/4 \Omega + 70 \text{ W} \times 1/2$	- 9	(Non-compressed)
Continue	aug pawar autaut	Ω (for subwoofer) . 22 W $ imes$ 4 (50 Hz to 15 000		·
Continue	ous power output	Hz, 5% THD, 4 Ω load, both	FM tuner	
		channels driven)	Frequency range	
Load im	oedance	*	Usable sensitivity	
200.0, 7,77		4Ω to $8\Omega \times 2 + 2\Omega \times 1$		S/N: 30 dB)
Preout m	nax output level	. 2.2 V	Signal-to-noise ratio	. 75 dB (IEC-A network)
Equalize	r (3-Band Parametr	ric Equalizer):	AM tuner	
Low				. 531 kHz to 1 602 kHz (9 kHz)
		. 40/80/100/160 Hz	Trequeries range	530 kHz to 1 640 kHz (10
	Q Factor	. 0.35/0.59/0.95/1.15 (+6 dB		kHz)
	Coin	when boosted)	Usable sensitivity	. 18 μV (S/N: 20 dB)
Mid	Gain	. ± 12 UD	Signal-to-noise ratio	. 65 dB (IEC-A network)
IVIIG		. 200/500/1k/2k Hz	_	
		. 0.35/0.59/0.95/1.15 (+6 dB	Mote	
		when boosted)	Specifications and the d	locian are subject to mad
	Gain	. ±12 dB	•	esign are subject to mod-
Higi			ifications without notice	due to improvements.
		. 3.15k/8k/10k/12.5k Hz		
	Q Factor	. 0.35/0.59/0.95/1.15 (+6 dB		
	Gain	when boosted)		
Loudnes	s contour:	. ± 12 0B		
		. +3.5 dB (100 Hz), +3 dB (10		
2011		kHz)		
Mid		. +10 dB (100 Hz), +6.5 dB		
		(10 kHz)		
Higi	h	. +11 dB (100 Hz), +11 dB		
		(10 kHz)		
		(volume: -30 dB)		

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2.2 DISC/CONTENT FORMAT

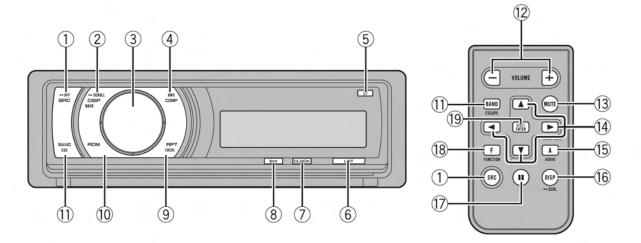






DEH-4090MP/XN/ID

2.3 PANEL FACILITIES



What's What

Head unit

1 SRC/OFF button

This unit is turned on by selecting a source. Press to cycle through all the available sources.

2 DISP/BACK/SCROLL button

Press to select different displays.

Press and hold to scroll the text information. Press to return to the previous display when operating the menu.

Press and hold to return to the main menu when operating the menu.

3 MULTI-CONTROL

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions. Turn to increase or decrease the volume.

4 COMP/BMX button

Press to turn COMP (compression) and BMX function on or off.

⑤ OPEN button

Press to open the front panel.

6 LIST button

Press to display the track title list, folder list, file list or preset channel list depending on the source.

7 CLOCK button

Press to change to the clock display.

8 SW/BASS button

Press to switch to subwoofer setting menu. When operating subwoofer menu, press to switch setting.

Press and hold to switch to bass boost menu. When operating bass booster, this button cannot be operated.

9 RPT/LOCAL button

Press to switch the repeat play range. Press to turn local function on or off while using tuner as the source.

10 RDM button

Press to turn random function on or off.

11) BAND/ESC button

Press to select among three FM bands and one AM band.

Press to return to the ordinary display when operating menu.

Remote control

Operation is the same as when using the buttons on the head unit.

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12 VOLUME buttons

Press to increase or decrease the volume.

13 MUTE button

Press to turn off the sound. To turn on the sound, press again.

(14) ▲/▼/◄/▶ buttons

Press to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

15 AUDIO button

Press to select an audio function.

16 DISP button

Press to select different displays.

Press and hold to scroll the text information.

① II (pause) button

Press to turn pause on or off.

18 FUNCTION button

Press to select functions.

19 LIST/ENTER button

Press to display the track title list, folder list, file list or preset channel list depending on the source.

While in the operating menu, press to control functions.

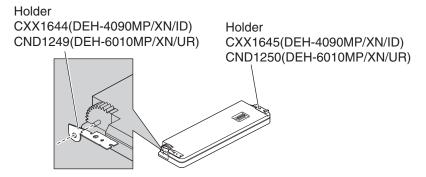
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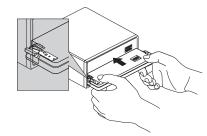
Fixing the front panel

If you do not operate the removing and attaching the front panel function, use the supplied fixing screws and holders to fix the front panel to this unit.

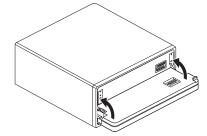
1. Attach the holders to both sides of the front panel.



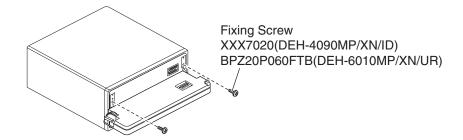
2. Replace the front panel to the unit.



3. Flip the holders into upright positions.



4. Fix the front panel to the unit using fixing screws.



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2.4 CONNECTION DIAGRAM

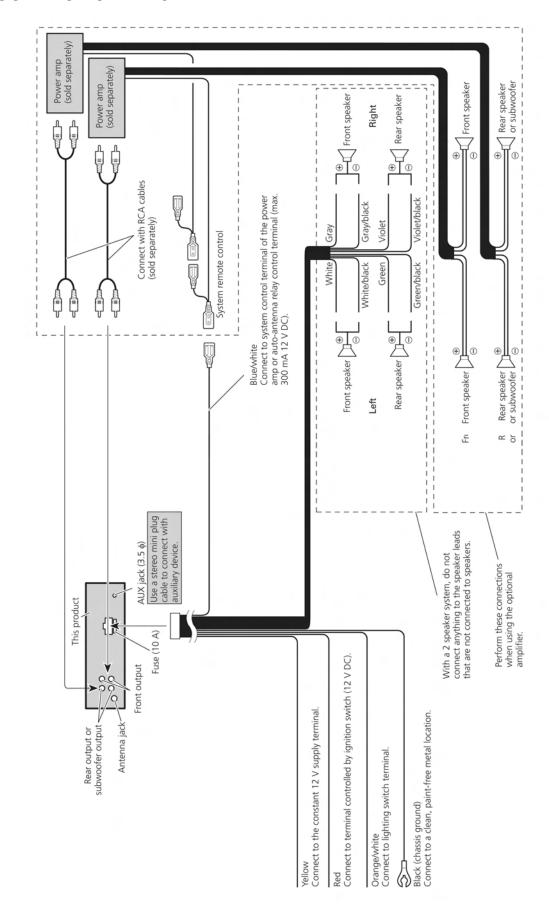
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3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

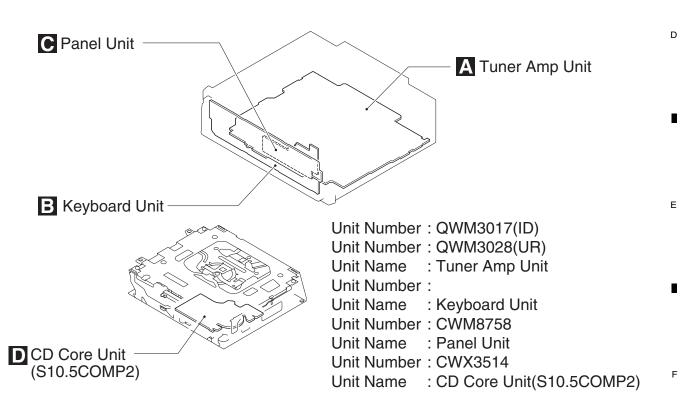
To keep the product quality after servicing, please confirm following check points.

No.		Procedures	Item to be confirmed
1		Confirm whether the customer complain has	The customer complain must not be
		been solved.	reappeared.
		If the customer complain occurs with the	Display, audio and operations must be
		specific media, use it for the operation check.	normal.
2	CD	Play back a CD.	No malfunction on display, audio and
		(Track search)	operation.
3	FM/AM tuner	Check FM/AM tuner action.	Display, audio and operations must be
		(Seek, Preset)	normal.
		Switch band to check both FM and AM.	
4		Check whether no disc is inside the product.	The media used for the operating check must
			be ejected.
5		Appearance check	No scratches or dirt on its appearance after
			receiving it for service.

See the table below for the items to be checked regarding audio:

Item to be checked regarding audio		
Distortion		
Noise		
Volume too low		
Volume too high		
Volume fluctuating		
Sound interrupted		

3.2 PCB LOCATIONS



DEH-4090MP/XN/ID

3.3 JIGS LIST

Jigs List

Name	Jig No.	Remarks
Test Disc	TCD-782	Checking the grating
L.P.F.		Checking the grating (Two pieces)

Grease List

Name	Grease No.	Remarks
Grease	GEM1024	CD Mechanism Module
Grease	GEM1045	CD Mechanism Module

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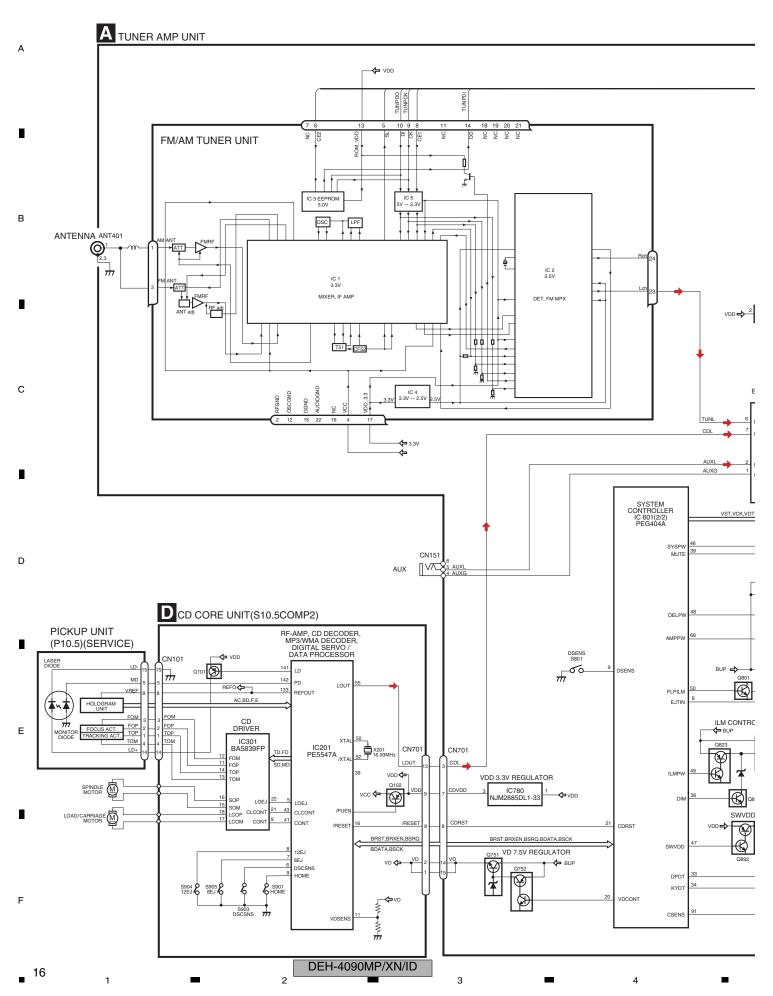
Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

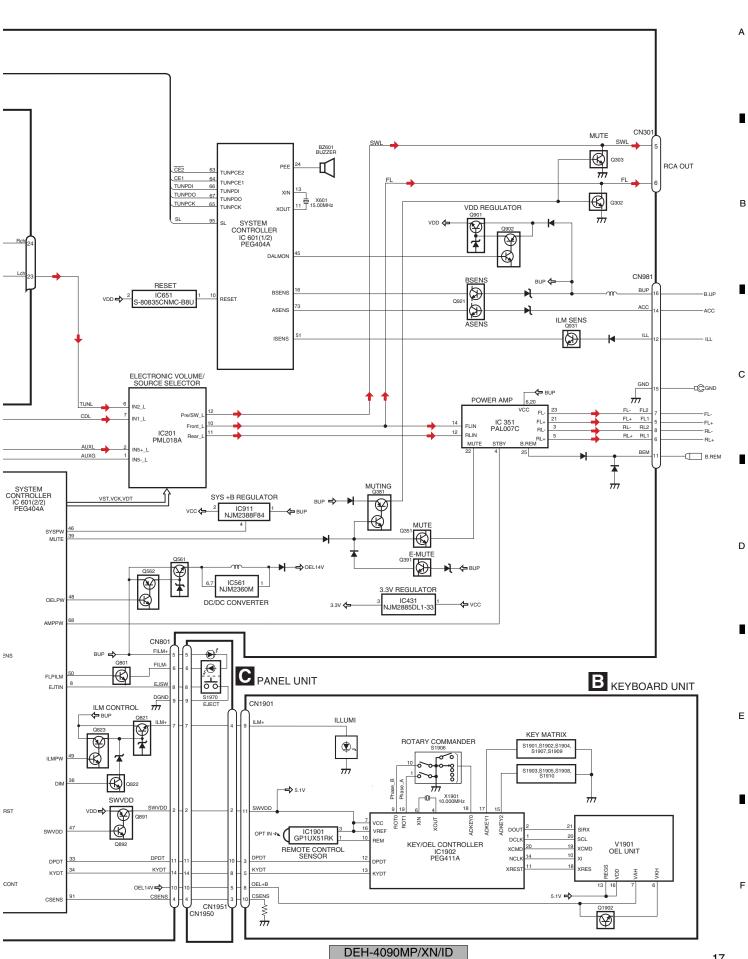
Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004
	Cleaning paper : GED-008

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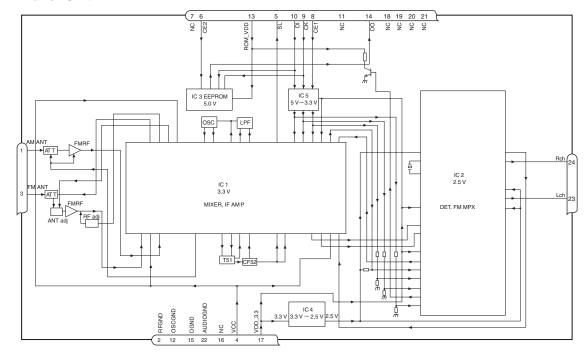
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4. BLOCK DIAGRAM





● FM/AM Tuner Unit



No.	Symbol	I/O	Explain	
1	AMANT	-	AM antenna input	AM antenna input high impedance AMANT pin is connected with
				an all antenna by way of 4.7 µH. (LAU type inductor) A series circuit
				including an inductor and a resistor is connected with RF ground for
				the countermeasure against the hum of power transmission line.
2	RFGND		RF ground	Ground of antenna block
3	FMANT	ı	FM antenna input	Input of FM antenna 75 Surge absorber (DSP-201M-S00B) is necessary.
4	VCC		power supply	The power supply for analog block. D.C $8.4 \text{ V} \pm 0.3 \text{ V}$
5	SL	0	signal level	Output of FM/AM signals level
6	CE2	ı	chip enable-2	Chip enable for EEPROM "Low" active
7	NC		non connection	Not used
8	CE1	П	chip enable-1	Chip enable for AF•RF "High" active
9	CK	ı	clock	Clock
10	DI	- 1	data in	Data input
11	NC		non connection	Not used
12	OSCGND		osc ground	Ground of oscillator block
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of
				micro computer.
14	DO	0	data out	Data output
15	DGND		digital ground	Ground of digital block
16	NC		non connection	Not used
17	VDD_3.3		power supply	The power supply for digital block. 3.3 V \pm 0.2 V
18	NC		non connection	Not used
19	NC		non connection	Not used
20	NC		non connection	Not used
21	NC		non connection	Not used
22	AUDIOGND		audio ground	Ground of audio block
23	L ch	0	L channel output	FM stereo "L-ch" signal output or AM audio output
24	R ch	0	R channel output	FM stereo "R-ch" signal output or AM audio output

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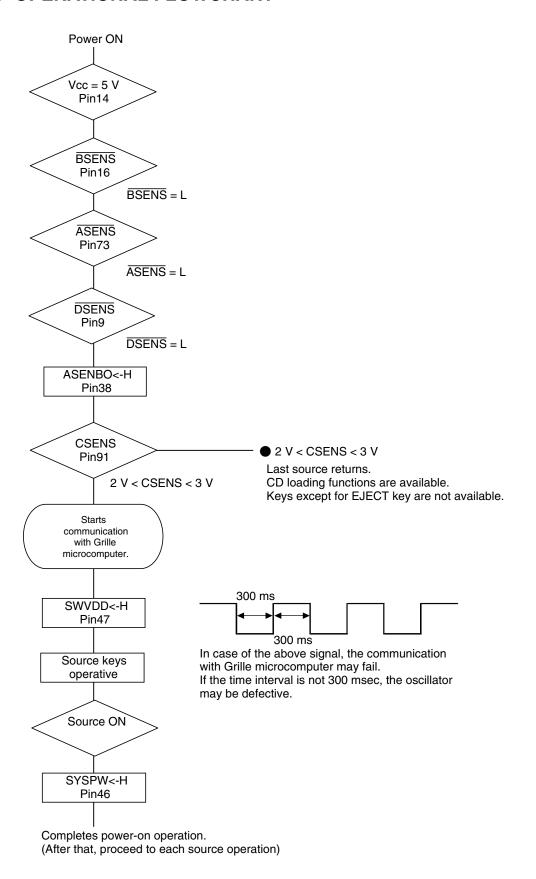
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5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART



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5.2 ERROR CODE LIST

Error Messages

If a CD is not operative or stopped during operation due to an error, the error mode is turned on and cause(s) of the error is indicated with a corresponding number. This arrangement is intended at reducing nonsense calls from the users and also for facilitating trouble analysis and repair work in servicing.

(1) Basic Indication Method

1) When SERRORM is selected for the CSMOD (CD mode area for the system), error codes are written to DMIN (minutes display area) and DSEC (seconds display area). The same data is written to DMIN and DSEC. DTNO remains in blank as before.

2) Head unit display examples

Depending on display capability of LCD used, display will vary as shown below. xx contains the error number.

8-digit display	6-digit display	4-digit display
ERROR-xx	ERR-xx	E-xx

(2) Error Code List

<u>\-/ \</u>			
Code	Class	Displayed error code	Description of the code and potential cause(s)
10	Electricity	Carriage Home NG	CRG can't be moved to inner diameter.
		SERVO LSI Com-	CRG can't be moved from inner diameter.
		munication Error	ightarrow Failure on home switch or CRG move mechanism.
			Communication error between microcomputer and SERVO LSI.
11	Electricity	Focus Servo NG	Focusing not available.
			ightarrow Stains on rear side of disc or excessive vibrations on REWRITABLE.
12	Electricity	Spindle Lock NG	Spindle not locked. Sub-code is strange (not readable).
		Subcode NG	ightarrow Failure on spindle, stains or damages on disc, or excessive vibrations.
			A disc not containing CD-R data is found.
			Turned over disc are found, though rarely.
			CD signal error.
17	Electricity	Setup NG	AGC protection doesn't work. Focus can be easily lost.
			ightarrow Damages or stains on disc, or excessive vibrations on REWRITABLE.
30	Electricity	Search Time Out	Failed to reach target address.
			ightarrow CRG tracking error or damages on disc.
44	Electricity	ALL Skip	Skip setting for all track.
			(CD-R/RW)
50	Mechanism	CD On Mech Error	Mechanical error during CD ON.
			ightarrow Defective loading motor, mechanical lock and mechanical sensor.
A0	System	Power Supply NG	Power (VD) is ground faulted.
			→ Failure on SW transistor or power supply (failure on connector).

Remarks: Mechanical errors are not displayed (because a CD is turned off in these errors).

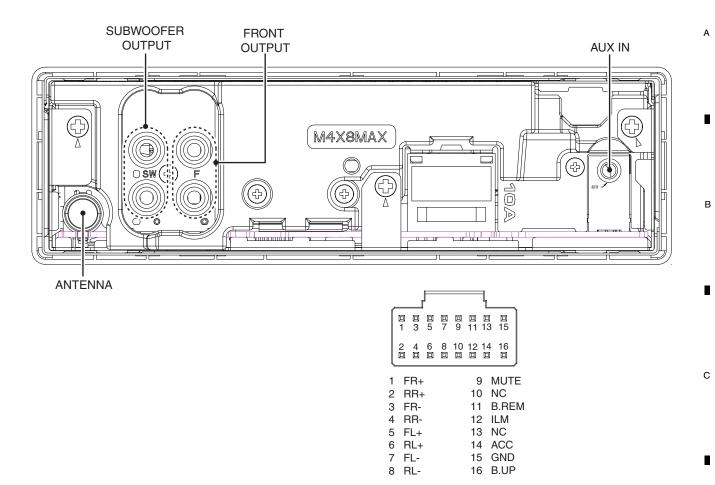
Unreadable TOC does not constitute an error. An intended operation continues in this case.

Upper digits of an error code are subdivided as shown below:

1x: Setup relevant errors, 3x: Search relevant errors, Ax: Other errors.

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5.3 CONNECTOR FUNCTION DESCRIPTION



DEH-4090MP/XN/ID

6. SERVICE MODE

6.1 CD TEST MODE

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During pressing the "SOURCE" and "RPT" keys simultaneously, perform the reset-start, then turn ON the CD to enter the CDS test mode.

• How to issue the 1 - 6 keys in the 08 model's slave test:

The specification of the 08 model does not include the 1 - 6 keys issuance function for H/U and the remote control unit. Therefore, in order to issue commands in a slave test, use the direct FUNCTION keys alternatively to enable the equal key command sending function to the existing models.

Outline) Use the direct FUNCTION keys to display, select, or issue the KEY 1 - 6.

<Direct FUNCTION keys and corresponding functions>

Direct FUNCTION key	Normal mode	Slave test mode
Α	COMP	Selecting a key command
В	RDM	Issuing a key command
С	RPT	Switching a screen

• For convenience, a name of each direct FUNCTION key is shown as "A", "B", and "C".

• How to issue the 1 - 6 keys for the CDS source:

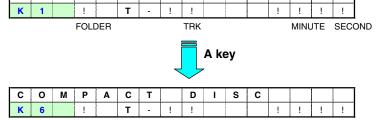
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Α

(The areas below are overwritten and displayed on character strings for the normal mode display.)

① During the slave test mode, the key name "K1" is shown at the left by default.

In this condition, press the A key to toggle K1 - K6, and select a command to be sent to the slave.



D

• The one-line model shows only the bottom column.

2 During the K1 - K6 key names are displayed, press the B key and issue the selected command.

С	0	М	Р	Α	С	Т		D	ı	S	С				
K	1		!		T	-	!	!				!	!	!	!



Send a key command selected by pressing the KEY 1.

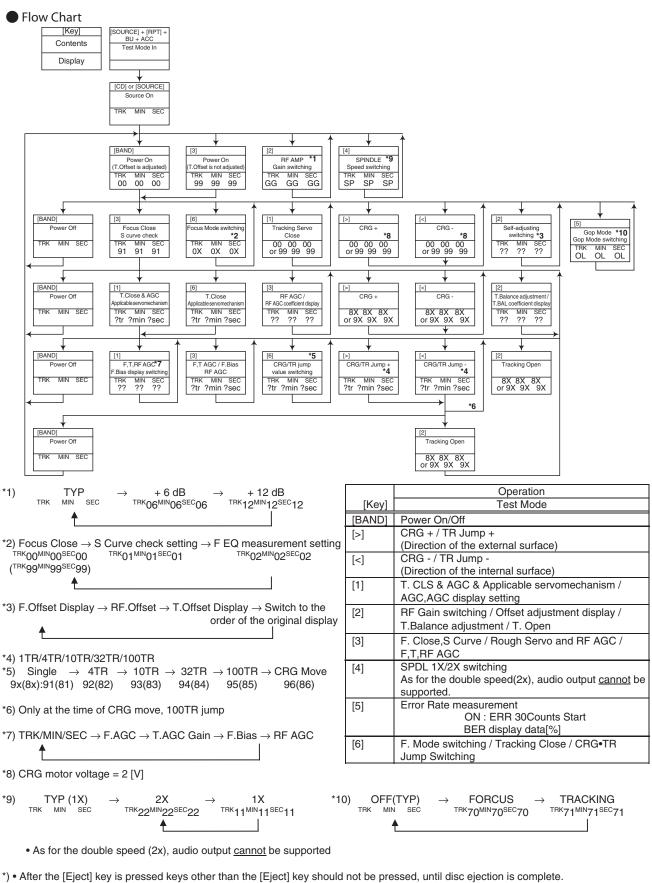
3 Press the C key to change display/non-display of key names.

When the non-display mode is selected for the K1 - K6 key names, "A key" and "B key" are invalid.

С	0	M	Р	Α	С	Т		D	ı	S	С				
K	1		!		Т	-	!	!				!	!	!	!
							4		C k	еу					
С	0	М	Р	Α	С	Т		D	ı	S	С				
F	-	!	!		Т	-	!	!				!	!	!	!

Pressing the A key or B key does not work.

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- . When the key [2] or [3] is pressed during the Focus Search, the power supply should be immediately turned off (otherwise the lens sticks to Wall, causing the actuator to be damaged).
- In the case of TR jump other than to 100TR, the function shall continue to be processed even if the TR jump key is released. As for the CRG Move and 100TR Jump, the mechanism shall be set to the Tracking Close mode when the key is released.
- When the power is turned on/off the jump mode is reset to the Single TR (91) while the gain of the RFAMP is reset to 0 dB. At the same time all the self-adjusting values shall return to the default setting.

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7. DISASSEMBLY

*NOTE) While the photograph shown is slightly different from this model in shape, the disassembly procedure is the same.

Removing the Keyboard Unit (Fig.1,2,3)

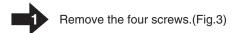
Pull arrow direction and remove Detach Grille Assy.(Fig.1)

Remove the Knob Unit.(Fig.2)

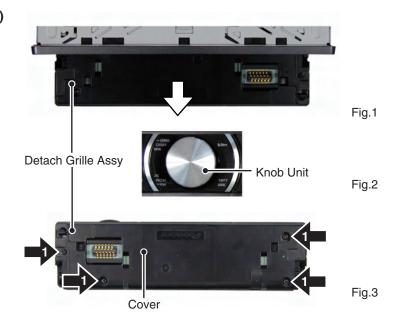
В

С

D

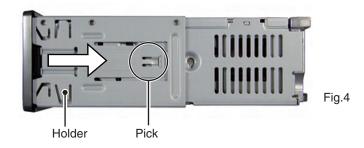


Remove the Cover and then remove the Keyboard Unit.



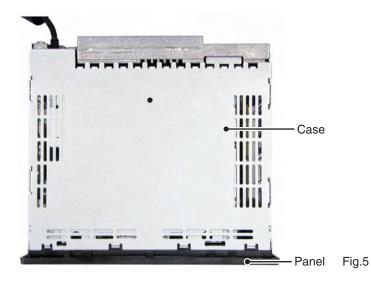
Removing the Holder (Fig.4)

Take off the pick of left and right and then a holder slide to the arrow course.



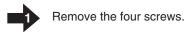
Removing the Case and Panel (Fig.5)

Remove the Case and Panel.

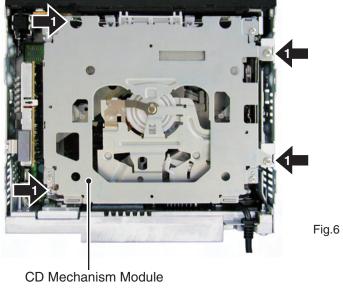


DEH-4090MP/XN/ID

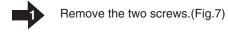
Removing the CD Mechanism Module (Fig.6)



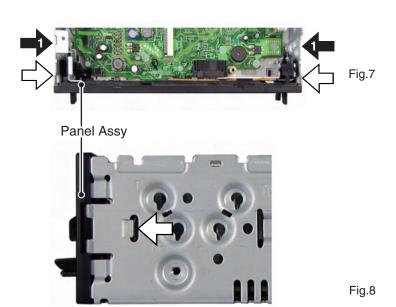
Disconnect the cable and then remove the CD Mechanism Module.



Removing the Panel AssyFig.7,8)



Push the place of the arrows and then remove Panel Assy.(Fig.7,8)



■ Removing the Panel Unit(Fig.9,10)



Remove the two screws.(Fig.9)

Remove the Holder and then remove Panel Unit.(Fig.10)



Fig.9

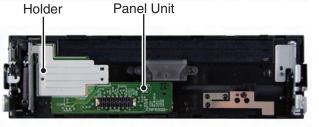


Fig.10

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Removing the Tuner amp Unit(Fig.11,12)

Remove the three screws.(Fig.11)

Remove the two screws.(Fig.11)

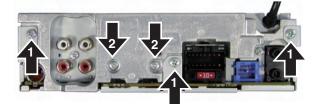


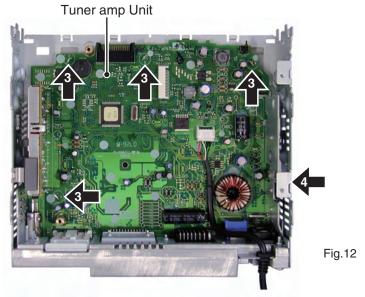
Fig.11

Straighten the tabs at four locations indicated.(Fig.12)

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Remove the screw and then remove the Tuner amp Unit.(Fig.12)



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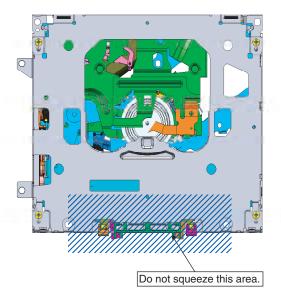
26

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(

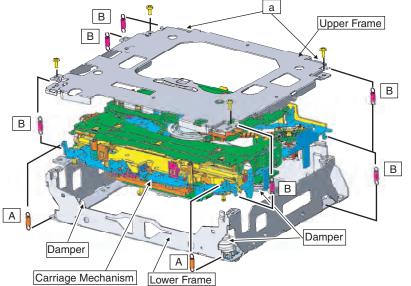
How to hold the Mechanism Unit

- 1. Hold the Upper and Lower Frames.
- 2. Do not hold the front portion of the Upper Frame, because it is not very solid.



Removing the Upper and Lower Frames

- 1. With a disc inserted and clamped in the mechanism, remove the two Springs (A), the six Springs (B), and the four Screws.
- 2. Turn the Upper Frame using the part "a" as a pivot, and remove the Upper Frame.
- 3. While lifting the Carriage Mechanism, remove it from the three Dampers.
- Caution: When assembling, be sure to apply some alcohol to the Dampers and assemble the mechanism in a clamped state.



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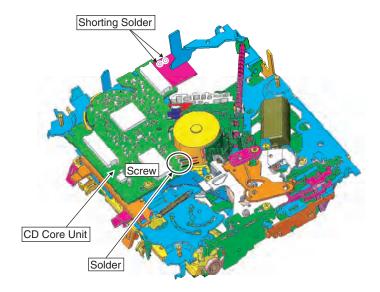
D

How to remove the CD Core Unit

- Apply Shorting Solder to the flexible cable of the Pickup, and disconnect it from the connector.
- 2. Unsolder the four leads, and loosen the Screw.
- 3. Remove the CD Core Unit.

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Caution: When assembling the CD Core Unit, assemble it with the SW in a clamped state so as not to damage it.

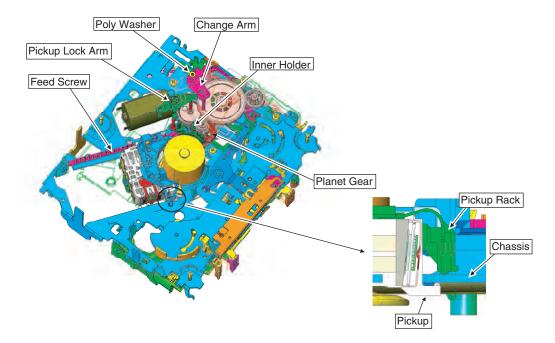


How to remove the Pickup Unit

- 1. Make the system in the carriage mechanism mode, and have it clamped.
- 2. Remove the CD Core Unit and remove the leads from the Inner Holder.
- 3. Remove the Poly Washer, Change Arm, and Pickup Lock Arm.
- 4. While releasing from the hook of the Inner Holder, lift the end of the Feed Screw.

Caution: When assembling, move the Planet Gear to the load/eject position before setting the Feed Screw in the Inner Holder.

Assemble the sub unit side of the Pickup, taking the plate (Chassis) in-between. When treating the leads of the Load Carriage Motor Assy, do not make them loose over the Feed Screw.



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8. EACH SETTING AND ADJUSTMENT 8.1 CD ADJUSTMENT

1) Cautions on adjustments

• In this product the single voltage (3.3 V) is used for the regulator. The reference voltage is the REFO1 (1.65 V) instead of the GND.

If you should mistakenly short the REFO1 with the GND during adjustment, accurate voltage will not be obtained, and the servo's misoperation will apply excessive shock to the pickup. To avoid such problems:

a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments. Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.

b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state.

c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.

- Before mounting and removing filters or leads for adjustment, be sure to turn off the regulator.
- For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.
- In the test mode, any software protections will not work. Avoid applying any mechanical or electrical shock to the mechanism during adjustment.
- The RFI and RFO signals with a wide frequency range are easy to oscillate. When observing the signals, insert a resistor of 1k ohms in series.
- The load and eject operation is not guarantied with the mechanism upside down. If the mechanism is blocked due to mistaken eject operation, reset the product or turn off and on the ACC to restore it.

2) Test mode

This mode is used to adjust the CD mechanism module.

• To enter the test mode.

While pressing the 4 and 6 keys at the same time, reset.

• To exit from the test mode.

Turn off the ACC and back up.

Notes:

a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.

b. If you have pressed the (\rightarrow) key or (\leftarrow) key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.

c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.

d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.

e. When the power is turned off and on, the jump mode is reset to the singleTR (91), the RF amp gain is set to 0 dB, and the auto-adjustment values are reset to the default settings.

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8.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



• Note:

The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

• Purpose:

To check that the grating is within an acceptable range when the PU unit is changed.

Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

• Method:

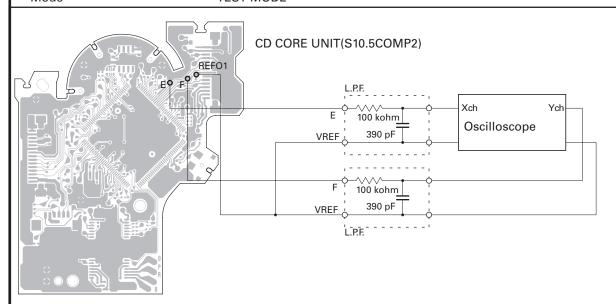
- Measuring Equipment
- Measuring Points
- Disc

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Mode

- Oscilloscope, Two L.P.F.
- E, F, REFO1
- TCD-782
- TEST MODE



Checking Procedure

- 1. In test mode, load the disc and switch the 3 V regulator on.
- 2. Using the \rightarrow and \leftarrow buttons, move the PU unit to the innermost track.
- 3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display should now read "81". Press key 3. The display will change, returning to "81" on the fourth press.
- 4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75 degrees. Refer to the photographs supplied to determine the phase angle.
- 5. If the phase difference is determined to be greater than 75 degrees try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75 degrees then the mechanism should be judged to be at fault.

Note

Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

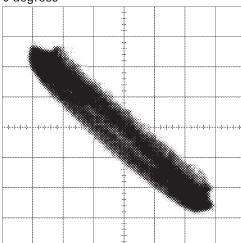
Hint

Reloading the disc changes the clamp position and may decrease the "wobble".

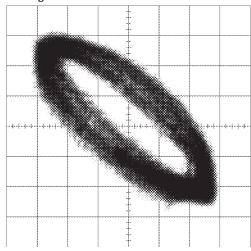
Grating waveform

 $Ech \to Xch \ \ 20 \ mV/div, AC$ $Fch \to Ych \ 20 \ mV/div, AC$

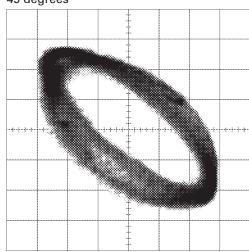
0 degrees



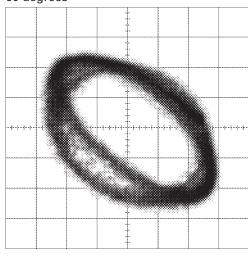
30 degrees



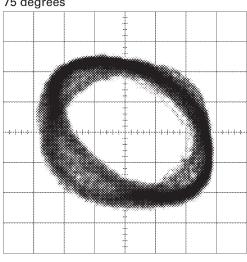
45 degrees



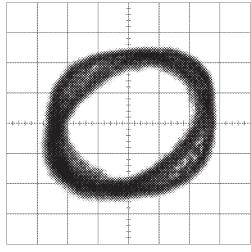
60 degrees



75 degrees



90 degrees



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8.3 PCL OUTPUT CONFIRMATION



PCL output

In the normal operation mode (with the detachable panel installed, the ACC switched ON, the standby mode cancelled), shift the TESTIN IC601(Pin 61) terminal to H.

The clock signal is output from the PCL terminal IC601(Pin 37).

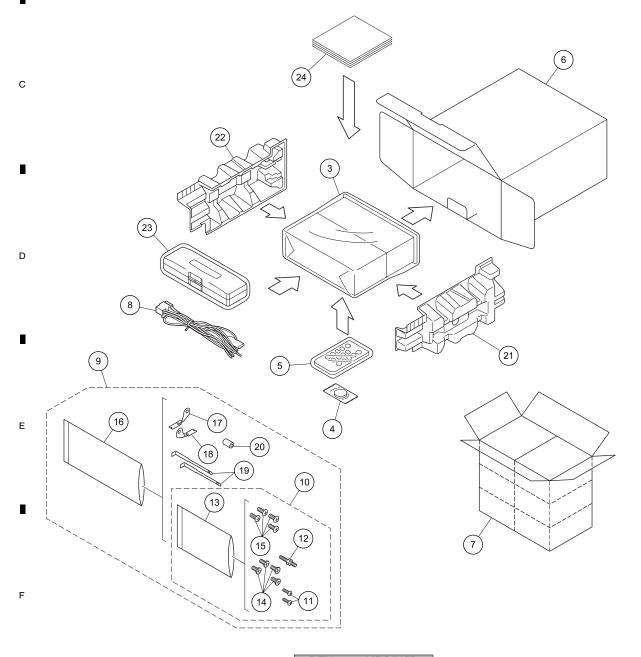
The frequency of the clock signal is 468 750 Hz that is one 32th of the fundamental frequency.

9. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.

- The \(\therefore\) mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screw adjacent to ∇ mark on the product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

9.1 PACKING



DEH-4090MP/XN/ID

PACKING SECTION PARTS LIST

Mark 1	<u>lo.</u>	Description	Part No.	Mark N	<u>o.</u>	<u>Description</u>	<u>Part No.</u>	
	1	••••		1	5	Screw	TRZ50P080FTC	
	2	••••						Α
	3	Polyethylene Bag	CEG1227	1	6	Polyethylene Bag	CEG1160	
*	4	Battery	CEX1065	1	7	Holder(L)	See Contrast table(2)	
	5	Remote Control Assy	CXC8885	1	8	Holder(R)	See Contrast table(2)	
		·		1	9	Handle	CND3707	
	6	Unit Box	See Contrast table(2)	2	20	Bush	CNV3930	_
	7	Contain Box	See Contrast table(2)					
	8	Cord Assy	XDP7001	2	21	Protector	XHP7016	
	9	Accessory Assy	See Contrast table(2)	2	22	Protector	XHP7017	
	10	Screw Assy	See Contrast table(2)	2	23	Case Assy	QXA3049	
		·		24	4-1	Caution Card	CRP1310	
	11	Screw	See Contrast table(2)	* 24	1-2	Caution Card	See Contrast table(2)	В
	12	Screw	CBA1650					
*	13	Polyethylene Bag	CEG-127	24	4-3	Owner's Manual	See Contrast table(2)	
	14	Screw	CRZ50P090FTC	* 24	1-4	Warranty Card	See Contrast table(2)	

(2) CONTRAST TABLE

DEH-4090MP/XN/ID and DEH-6010MP/XN/UR are constructed the same except for the following:

Mark	No.	Description	DEH-4090MP/XN/ID	DEH-6010MP/XN/UR
	6	Unit Box	QHG3010	QHG3011
	7	Contain Box	QHL3010	QHL3011
	9	Accessory Assy	CEA6708	XEA7011
	10	Screw Assy	CEA3849	CEA5317
	11	Screw	Not used	BPZ20P060FTB
	17	Holder(L)	Not used	CND1249
	18	Holder(R)	Not used	CND1250
*	24-2	Caution Card	QRP3002	QRP3001
	24-3	Owner's Manual	QRB3004	QRB3005
*	24-4	Warranty Card	Not used	CRY1265

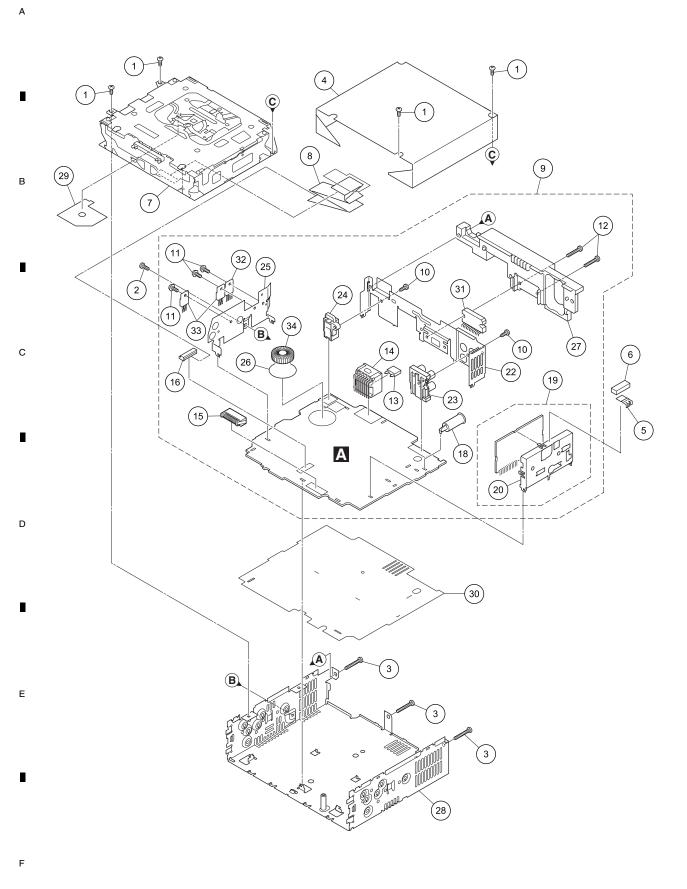
Owner's Manual, Installation Manual

Part No.	Language
QRB3004	English
QRB3005	Russian

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9.2 EXTERIOR(1)



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DEH-4090MP/XN/ID

(1) EXTERIOR(1) SECTION PARTS LIST

Mark No	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	Screw	BSZ26P060FTC	18	Antenna Jack(ANT401)	CKX1056
2	Screw	BSZ30P060FTC	19	FM/AM Tuner Unit	CWE2098
3	Screw	BSZ30P200FTC	20	Holder	CND4324
4	Sheet	See Contrast table(2)			
5	Earth Plate	CNC8915	21	••••	
			22	Holder	QNC3002
6	Cushion	CNM8890	23	Pin Jack(CN301)	CKB1051
7	CD Mechanism Module(S10.5)	CXK5763	24	Jack(CN151)	XKS7006
8	Cable	QDE3002	25	Holder	XNC7030
9	Tuner Amp Unit	See Contrast table(2)			
10	Screw	BPZ26P070FTC	26	Insulator	XNM7031
			27	Heat Sink	YNR5031
11	Screw	BSZ26P060FTC	28	Chassis Unit	QXA3013
12	Screw	BSZ26P200FTC	29	Insulator	XNM7106
<u> </u>	Fuse(10 A)	YEK5001	30	Insulator	CNN2339
14	Plug(CN981)	CKM1376			
15	Plug(CN801)	CKS3537	31	IC(IC351)	PAL007C
			32	IC(IC911)	NJM2388F84
16	Connector(CN701)	CKS3829	33	Transistor(Q751,Q901)	2SD2396
17	••••		34	Choke Coil(L981)	CTH1280

(2) CONTRAST TABLE

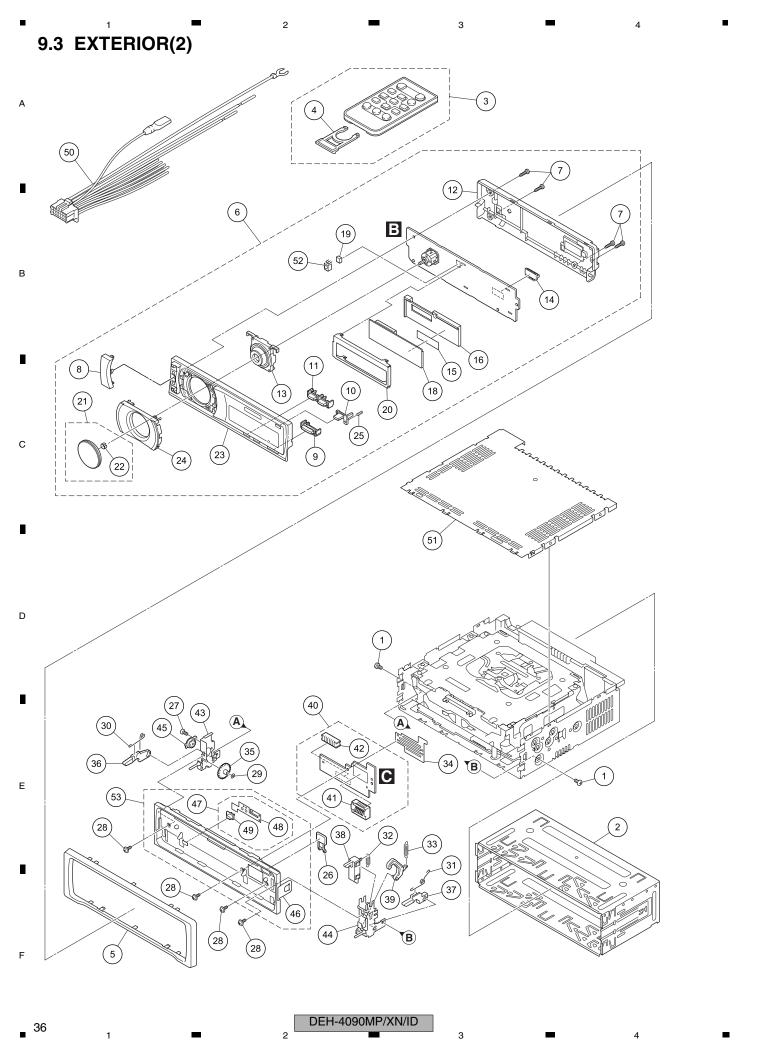
DEH-4090MP/XN/ID and DEH-6010MP/XN/UR are constructed the same except for the following:

Mark	No.	Description	DEH-4090MP/XN/ID	DEH-6010MP/XN/UR
NOTE	4	Sheet	CNM9404	Not used
	9	Tuner Amp Unit	QWM3017	QWM3028

<NOTE> Sheet, #4 has to be replaced if it is removed.

DEH-4090MP/XN/ID

R



(1) EXTERIOR(2) SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	Screw	BMZ30P040FTB	28	Screw(M2 x 4.5)	CBA1925
2	Holder	CND3598	29	Washer	CBF1038
3	Remote Control Assy	CXC8885	30	Spring	CBH2650
4	Cover	CNS7068			
5	Panel	QNS3004	31	Spring	CBH2651
			32	Spring	CBH2652
6	Detach Grille Assy	See Contrast table(2)	33	Spring	CBH2653
7	Screw	BPZ20P080FTB	34	Holder	CND1254
8	Button(SRC, BAND)	QAC3004	35	Gear	CNV5997
9	Button(LIST)	QAC3005			
10	Button(OPEN)	QAC3007	36	Arm	CNV7400
			37	Arm	CNV7401
11	Button(SW, CLOCK)	QAC3014	38	Arm	CNV7402
12	Cover	QNS3002	39	Arm	CNV7403
13	Lighting Conductor	QNV3001	40	Panel Unit	CWM8758
14	Connector(CN1901)	CKS5207			
15	Double Side Tape	CNN1878	41	Connector(CN1951)	CKS4806
			42	Connector(CN1950)	CKS5192
16	Holder	CNV9735	43	Holder Unit	CXB9501
17	••••		44	Holder Unit	CXB9502
18	OLED	MXS8249	45	Damper Unit	CXB9503
19	Spacer	QNM3006			
20	Holder	XNC7028	46	Panel Unit	QXA3036
			47	Sub Spring Assy	XXA7363
21	Knob Unit	QXA3006	48	Spring	CBL1512
22	Spring	XBL7005	49	Pin	CNV6486
23	Grille Unit	See Contrast table(2)	50	Cord Assy	XDP7001
24	Button(DISP, RDM, COMP, RP	T) QAC3012			
25	Spring	XBH7001	51	Case	YNB5014
			52	IC(IC1901)	GP1UX51RK
26	Button(EJECT)	CAC7752	53	Sub Panel Assy	QXA3025
27	Screw(M2 x 4)	CBA1649			

(2) CONTRAST TABLE

DEH-4090MP/XN/ID and DEH-6010MP/XN/UR are constructed the same except for the following:

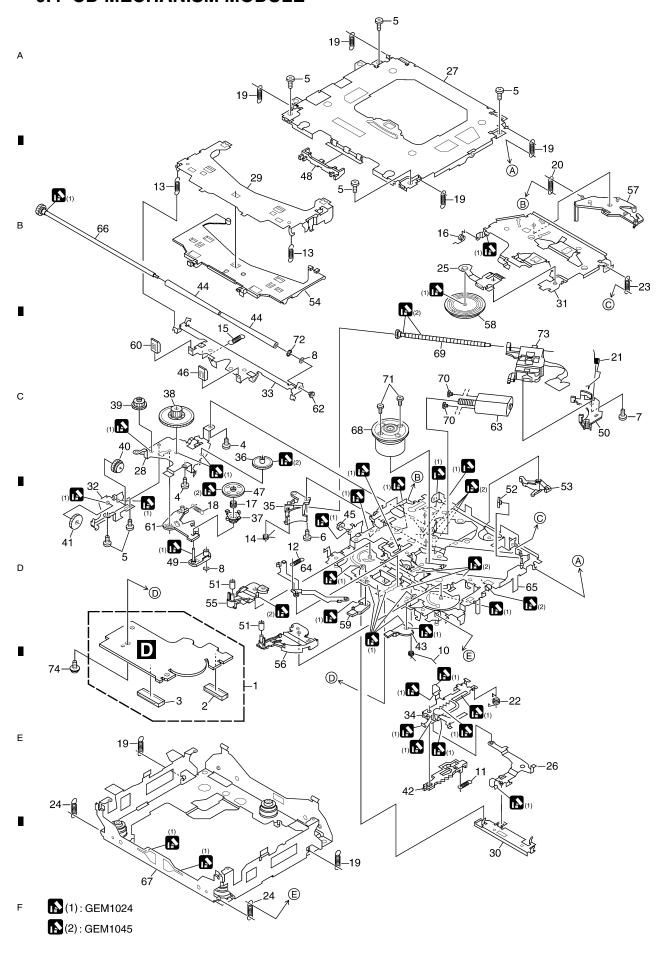
Mark	No.	Description	DEH-4090MP/XN/ID	DEH-6010MP/XN/UR
	6	Detach Grille Assy	QXA3005	QXA3037
	23	Grille Unit	QXA3033	QXA3034

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9.4 CD MECHANISM MODULE



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CD MEC	HANISM MODULE SECT	ION PARTS LIST			-	
Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	CD Core Unit(S10.5COMP2)	CWX3514	50	Rack	CNV8342	
2	Connector(CN101)	CKS4182				,
3	Connector(CN701)	CKS4808	51	Roller	CNV8343	•
4	Screw	BMZ20P025FTC	52	Holder	CNV8344	
5	Screw	BSZ20P040FTC	53	Arm	CNV8345	
3	Colew	D02201 0401 10	54	Guide	CNV8347	
•	0 (140 0)	0041511	55	Arm	CNV8348	
6	Screw(M2 x 3)	CBA1511	33	Aiii	01110040	Ī
7	Screw(M2 x 4)	CBA1835	FC	Δ 2000	CNIV(0040	
8	Washer	CBF1038	56	Arm	CNV8349	
9	•••••		57	Arm	CNV8350	
10	Spring	CBH2609	58	Clamper	CNV8365	
			59	Arm	CNV8386	
11	Spring	CBH2612	60	Guide	CNV8396	ı
12	Spring	CBH2614				
13	Spring	CBH2616	61	Arm	CNV8413	
14	Spring	CBH2617	62	Collar	CNV8938	
15	Spring	CBH2620	63	Motor Unit(M2)	CXC4026	
10	Cpinig	OBNIZOZO	64	Arm Unit	CXC4027	_
16	Chrina	CBH2855	65	Chassis Unit	CXC4028	
16	Spring		00	Chacole Chin	07.0 1020	
17	Spring	CBH2937	66	Gear Unit	CXC4029	
18	Spring	CBH2735	66			
19	Spring	CBH2854	67	Frame Unit	CXC4031	
20	Spring	CBH2642	68	Motor Unit(M1)	CXC7134	,
			69	Screw Unit	CXC6359	(
21	Spring	CBH2856	70	Screw	JFZ20P020FTC	
22	Spring	CBH2857				
23	Spring	CBH2860	71	Screw	JGZ17P022FTC	
24	Spring	CBH2861	72	Washer	YE20FTC	
25	Spring	CBL1686	73	Pickup Unit(P10.5)(Service)	CXX1942	
	-pmg		74	Screw	IMS26P030FTC	
26	Arm	CND1909				
27	Frame	CND2582				
28	Bracket	CND2583				
29	Arm	CND2584				[
30	Lever	CND2585				
31	Arm	CND2586				
32	Bracket	CND2587				
33	Arm	CND2588				Ī
34	Lever	CND2589				
35	Holder	CNV7201				
00	0	ONIV/7007				
	Gear	CNV7207				
37	Gear	CNV7208				
38	Gear	CNV7209				E
39	Gear	CNV7210				
40	Gear	CNV7211				
41	Gear	CNV7212				
42	Rack	CNV7214				
43	Arm	CNV7216				
44	Roller	CNV7218				
45	Gear	CNV7219				
46	Guide	CNV7361				
47	Gear	CNV7595				!
48	Guide	CNV7799				
49	Arm	CNV7799 CNV7805				
43	, mill	51447000				

DEH-4090MP/XN/ID

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10. SCHEMATIC DIAGRAM

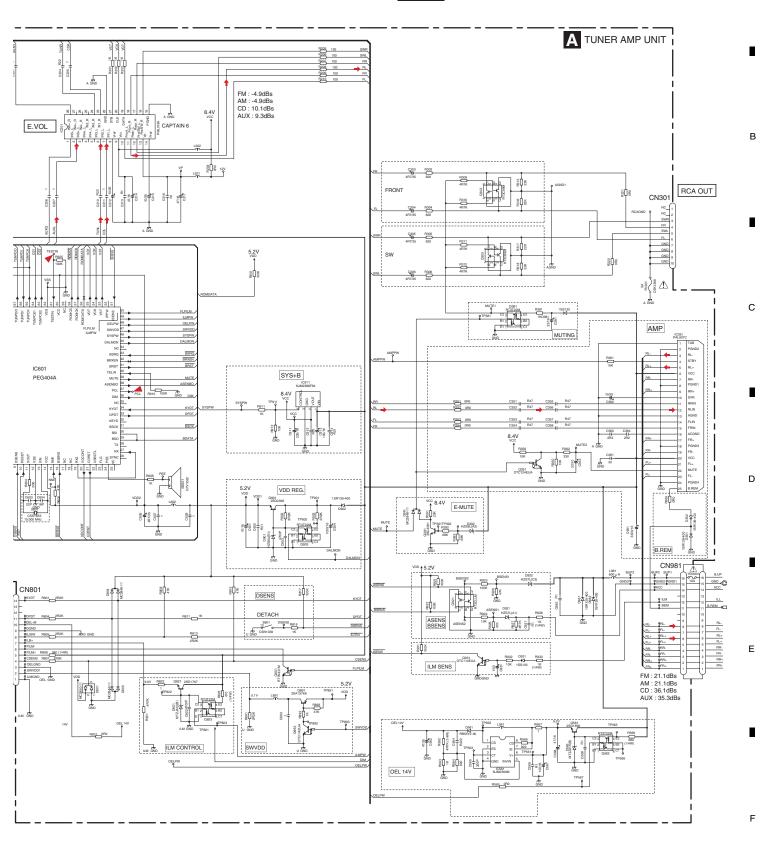
10.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST". Large size SCH diagrar TUNER AM: -24dBs E.VOL В RESET С (AUX) 12 IC601 PEG404A CD MECHA CN701 **D** CN701 CN1950 В CN1901 : The power supply is shown with the marked box. C PANEL UNIT NOTE: Symbol indicates a resistor. Decimal points for resistor No differentiation is made between chip resistors and and capacitor fixed values are expressed as: → Symbol indicates a capacitor. 2.2 - 2R2 0.022 - R022 No differentiation is made between chip capacitors and discrete capacitors. The riangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of



identical designation.

A-b



Α

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RCA OUT NC 1 1 NC 2 2 SWR 3 3 FR 4 5 SWR 5 CN301 A TUNER AMP UNIT AMP ₹ 136 10/25 MUTING 155133 R47 R47 ₩ AĞND C357 R47 R47 C353 C354 8.4V ***** £ 08 \$\dagger{1}{2}\dagger{2}{2} \$\bar{1}\text{8} £ 08 4B7/35 SW SYS+B 10K FM:-4.9dBs AM:-4.9dBs CD:10.1dBs AUX:9.3dBs ± | |-|-5.2V √00 ↑ 8.4 PML018A CAPTAIN 6 뫓 B1 CS16 CS12 10\S2 C213 R1 NDI NCK 63 63 64 DEH-4090MP/XN/ID

3

Α

В

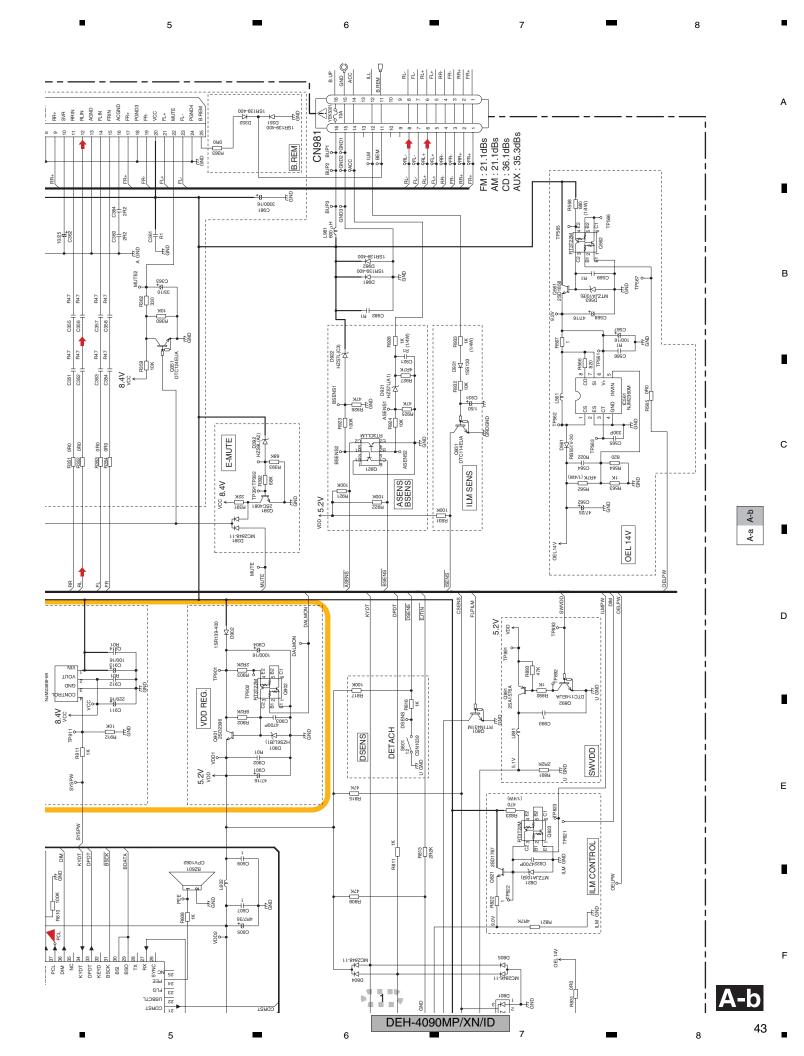
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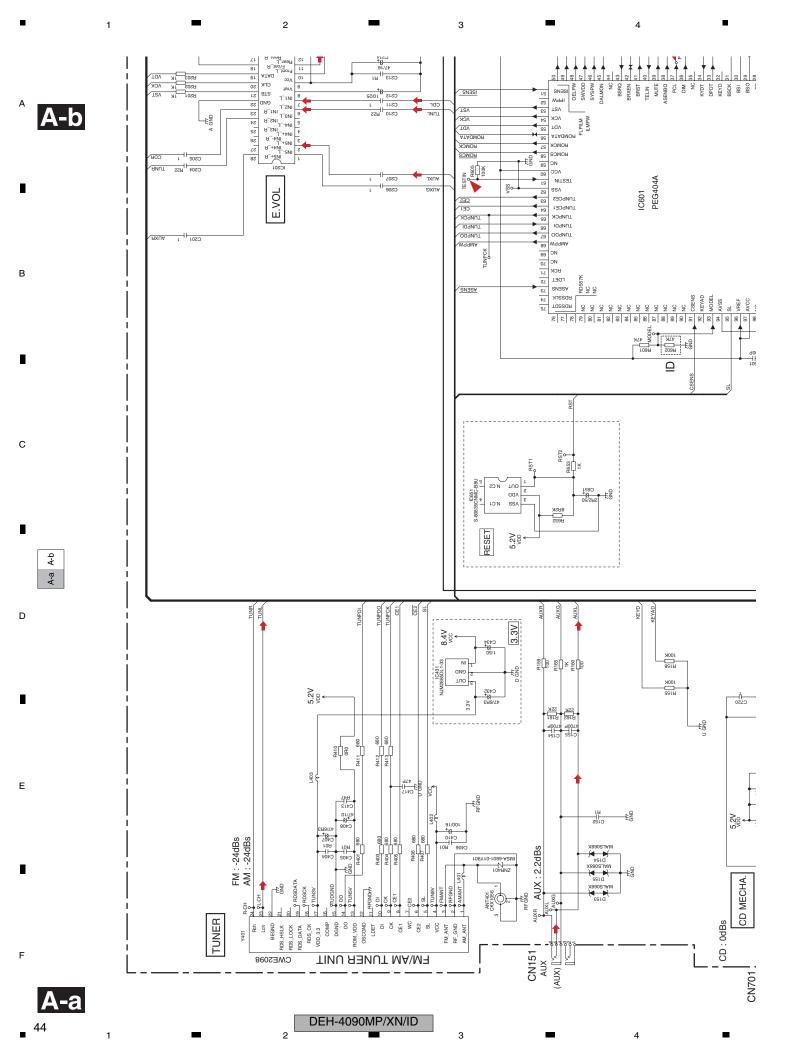
A-a A-b

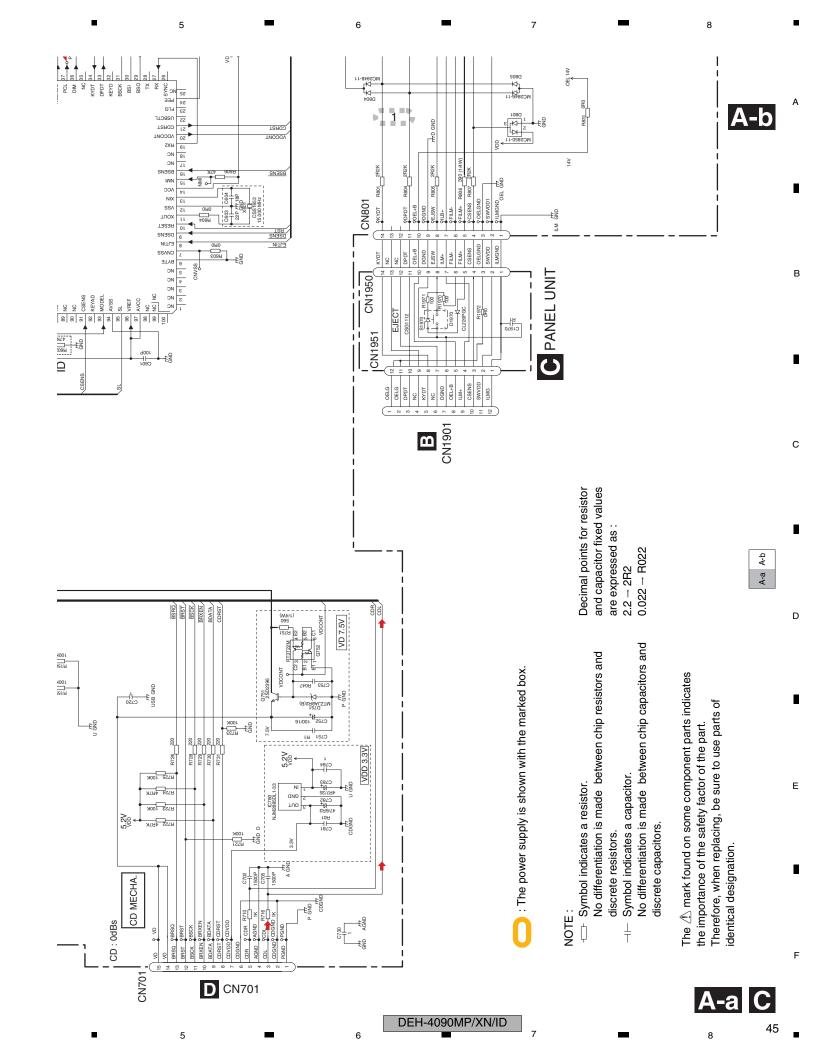
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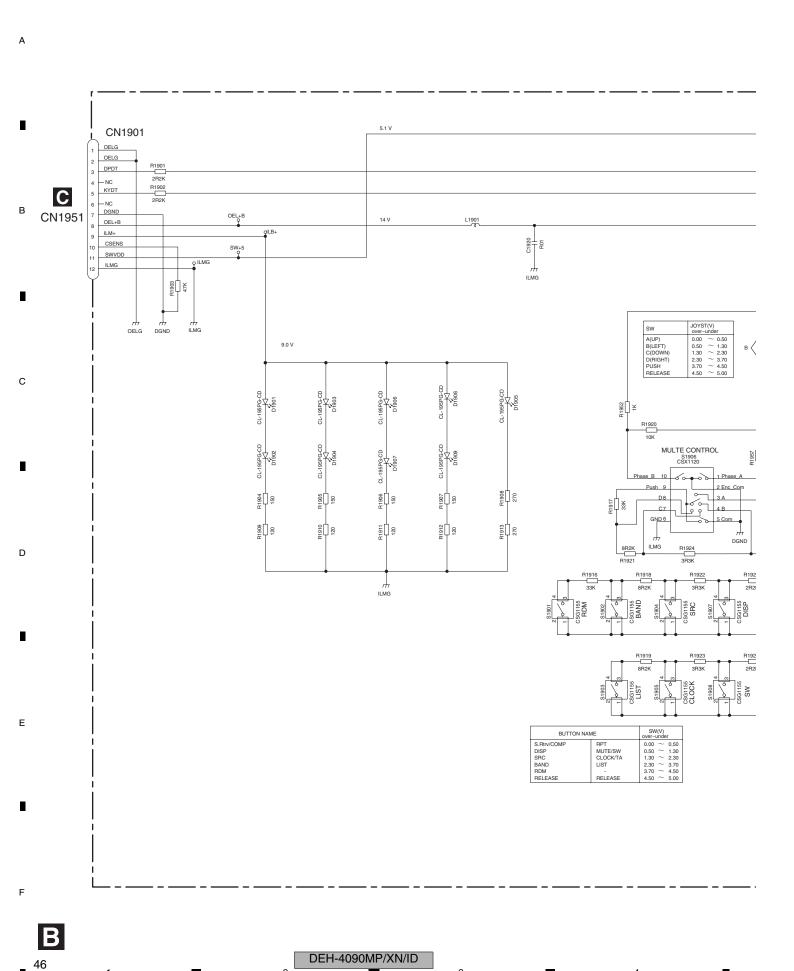
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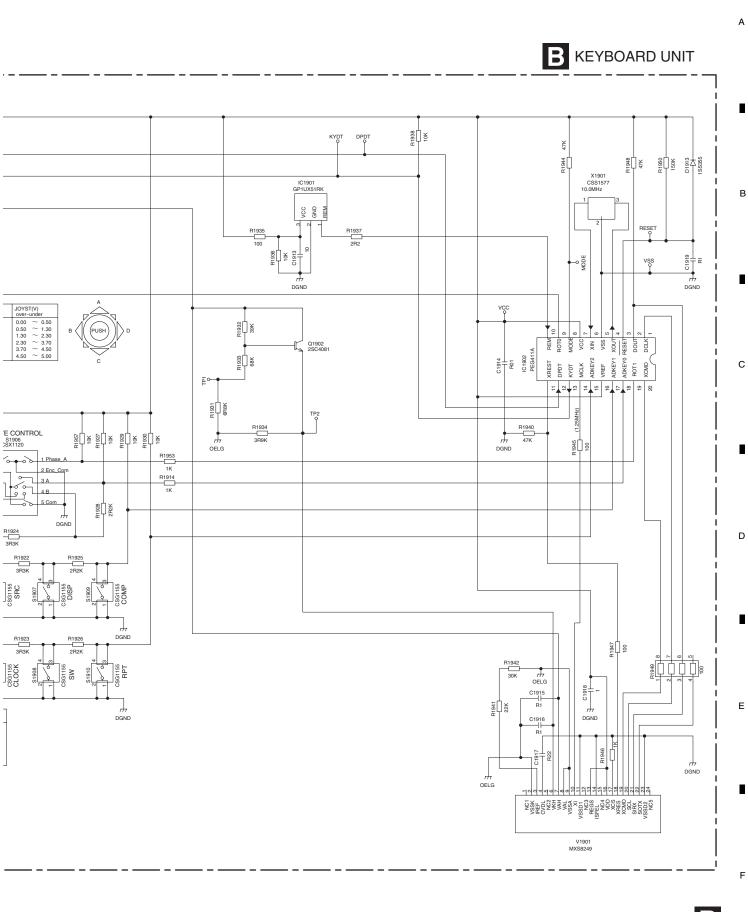






10.2 KEYBOARD UNIT



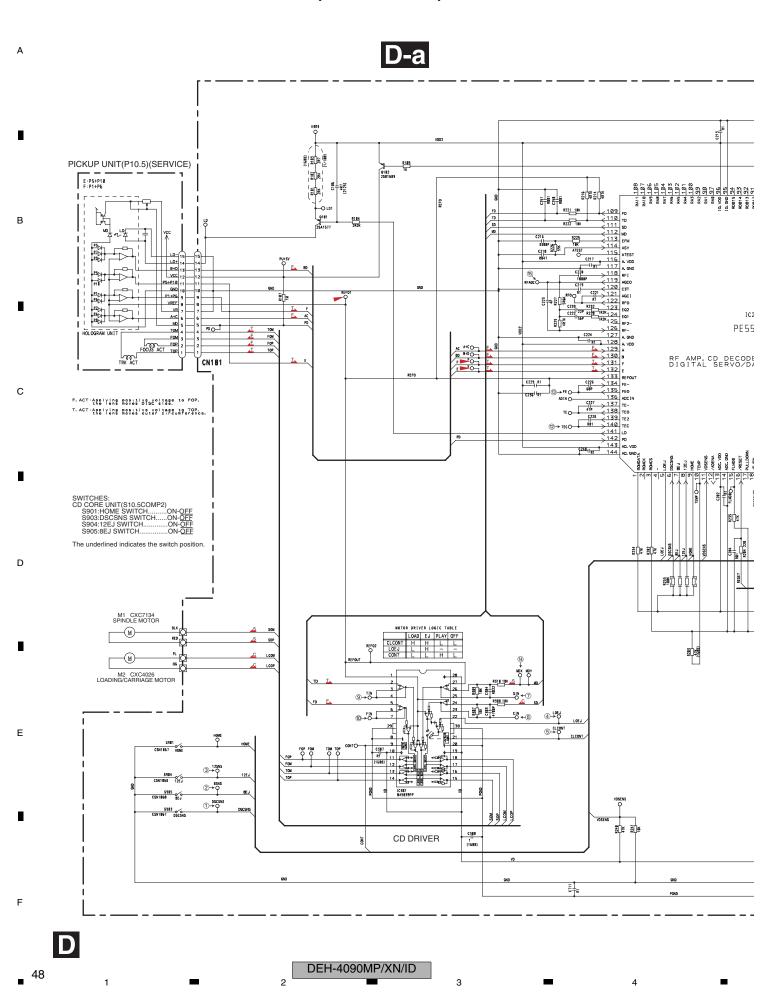


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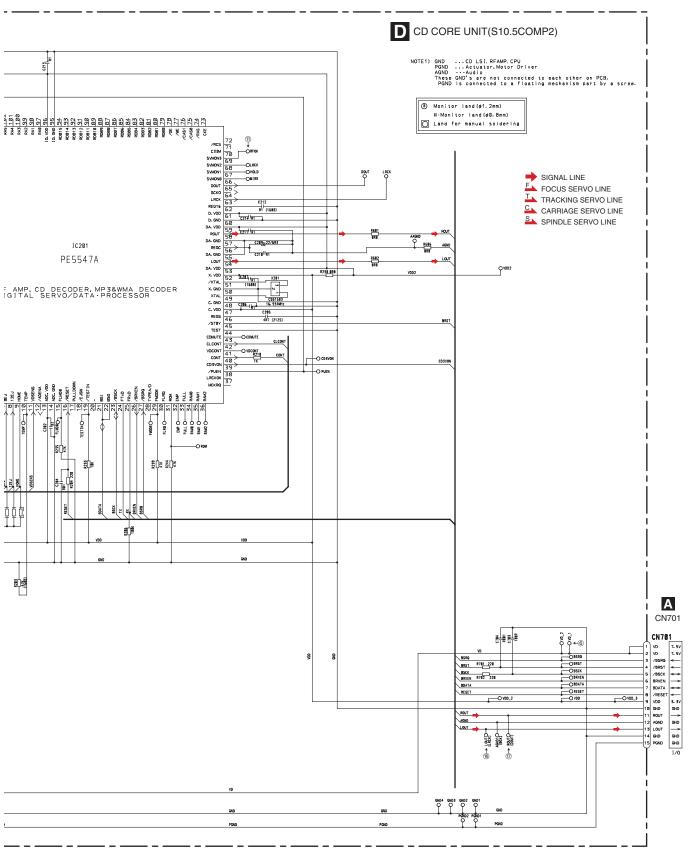
DEH-4090MP/XN/ID

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10.3 CD MECHANISM MODULE(GUIDE PAGE)



D-b



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DEH-4090MP/XN/ID

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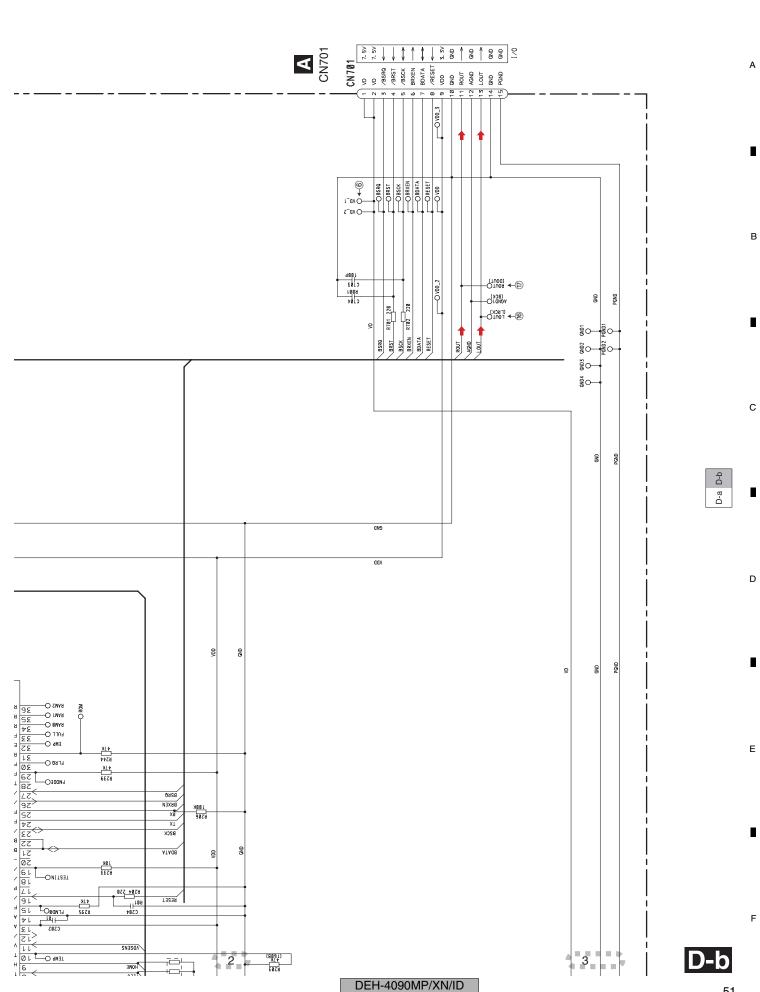
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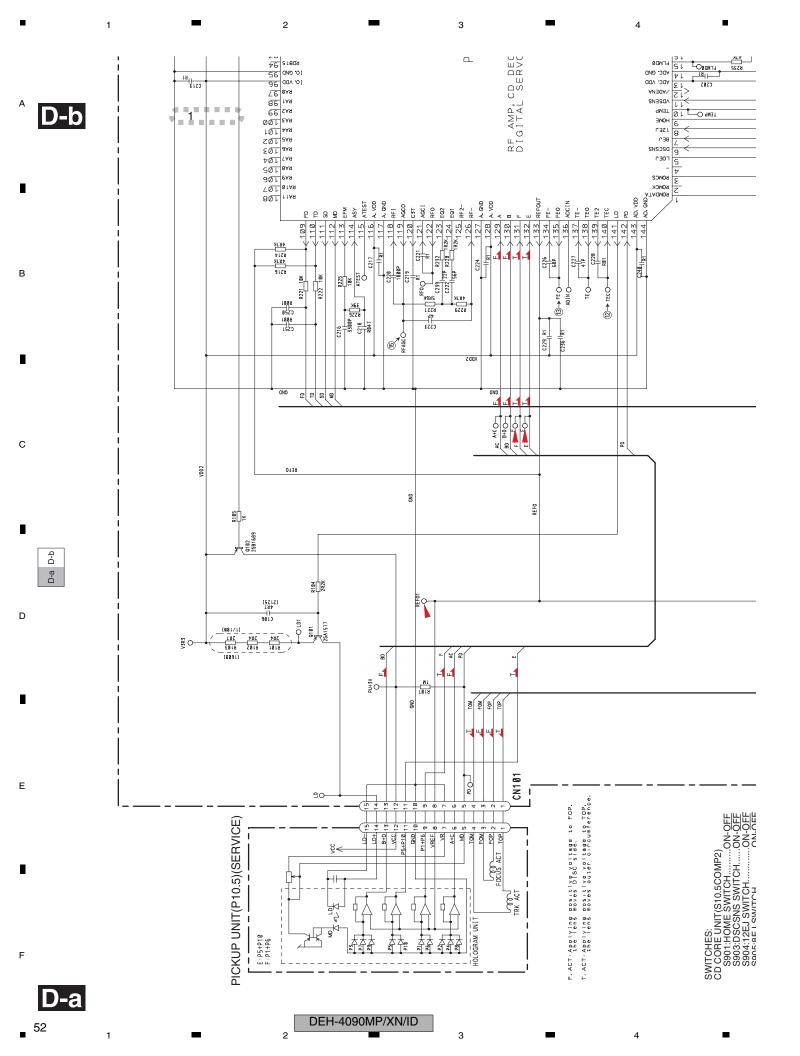
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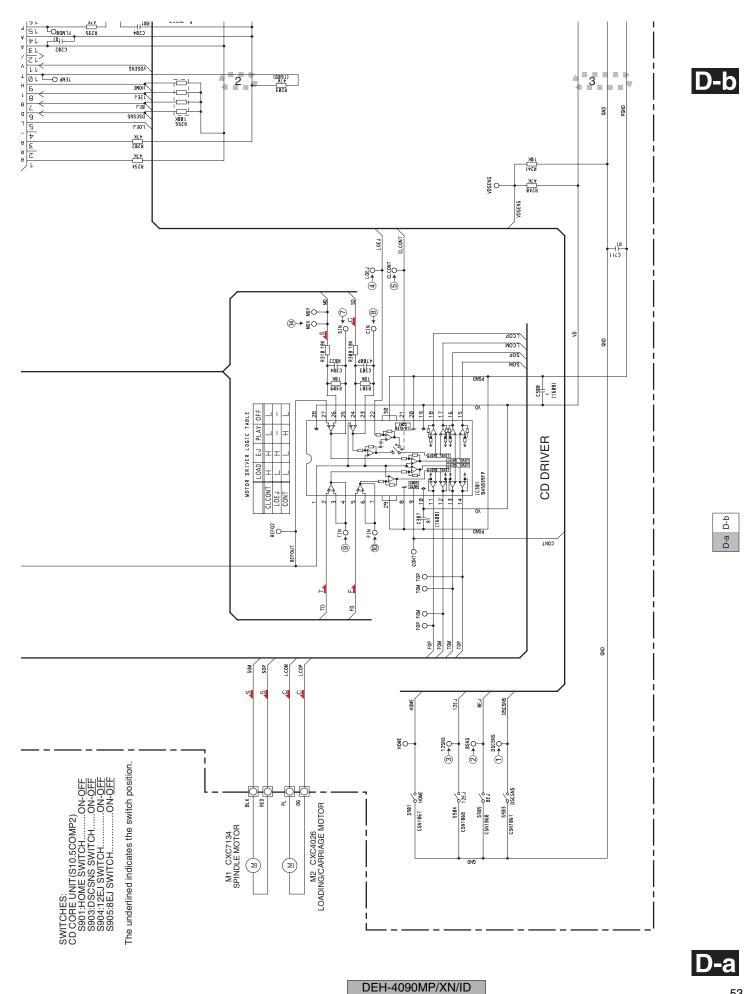
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10.4 WAVEFORMS

В

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CD CORE UNIT Note: 1. The encircled numbers denote measuring points in the circuit diagram. 2. Reference voltage REFO1(1.65 V) ①DSCSNS ①DSCSNS ①DSCSNS 5 V/div 500 ms/div 5 V/div 500 ms/div 5 V/div 500 ms/div **⑤CLCONT 28SNS** 5 V/div 5 V/div **28SNS** 5 V/div **312SNS** 5 V/div (4)LOEJ 5 V/div **312SNS** 5 V/div 4 LOEJ 5 V/div ⑥VD 10 V/div **4**LOEJ 5 V/div 12 cm CD Loading operation 12 cm CD Loading operation 8 cm CD Loading operation Ref.: Ref.: Ref.: GND GND GND Mode: Mode: Mode: Normal Normal Normal 200 mV/div 500 ms/div 500 mV/div 200 ms/div 7)SIN 1 V/div 1 s/div 10FIN (12)TE (13) FE ®CIN 500 mV/div ①RFOK(MONI_2) 2 V/div 500 mV/div 9TIN 1 V/div 7SIN 2 V/div 12 cm CD-DA setup operation after loading 12 cm CD-DA Source On setup operation Source On setup operation Ref.: Ref.: Ref.: **REFO REFO REFO** Mode: Mode: Mode: Normal Normal Normal 500 mV/div 20 ms/div 13FE **4MDX** 2 V/div 200 ms/div 14MDX 2 V/div 5 µs/div **10FIN** 500 mV/div 7SIN 500 mV/div 7SIN 500 mV/div **12TE** 500 mV/div 9TIN 500 mV/div CD-DA Play operation Spindle waveform during play operation Spindle waveform during play operation (Wider) Ref.: Ref.: Ref.: **REFO REFO REFO** Mode: Mode: Mode: Norma Normal Normal **10FIN** 500 mV/div 200 ms/div 12)TE 500 mV/div 2 ms/div ®RFAGC 1 V/div 500 µs/div (13) FE 500 mV/div ®RFAGC 500 mV/div 12)TE 500 mV/div 9TIN 500 mV/div Focus Search waveform Track Open waveform 1 Track Jump waveform Ref.: Ref.: Ref.: REFO REFO **REFO** Mode: Mode: Mode: **TEST TEST TEST**

®RFAGC 1 V/div 500 µs/div **®RFAGC** 1 V/div 500 µs/div ®RFAGC 1 V/div 2 ms/div 12)TE 500 mV/div (12)TE 500 mV/div 12)TE 500 mV/div 9TIN 500 mV/div 9TIN 500 mV/div 9TIN 500 mV/div 4Tracks Jump waveform 10 Tracks Jump waveform 32 Tracks Jump waveform Ref.: Ref.: Ref.: REFO REFO REFO Mode: Mode: Mode: TEST TEST TEST **®RFAGC** 1 V/div 200 ms/div **16LOUT** 1 V/div 200 µs/div ①DSCSNS 5 V/div 500 ms/div **®ROUT** 12TE 1 V/div 1 V/div **28SNS** 5 V/div **®CIN** 1 V/div **312SNS** 5 V/div **7SIN** 2 V/div **4LOEJ** 5 V/div 12 cm CD Eject operation Search operation(Outter to Inner) Analog audio waveform Ref.: Ref.: Ref.: REFO AGND GND Mode: Mode: Mode: Normal Normal Normal ①DSCSNS 5 V/div 500 ms/div ①DSCSNS 5 V/div 500 ms/div ®RFAGC 1 V/div 500 µs/div **⑤CLCONT** 5 V/div **28SNS** 5 V/div 9TIN 1 V/div **4LOEJ** 5 V/div 1 V/div **312SNS** 5 V/div 12TE **10FIN 4**LOEJ 5 V/div 1 V/div 12 cm CD Eject operation 8 cm CD Eject operation Black dot(800 µm) during play Ref.: Ref.: Ref.: REFO GND GND Mode: Mode: Mode: Normal Normal Normal

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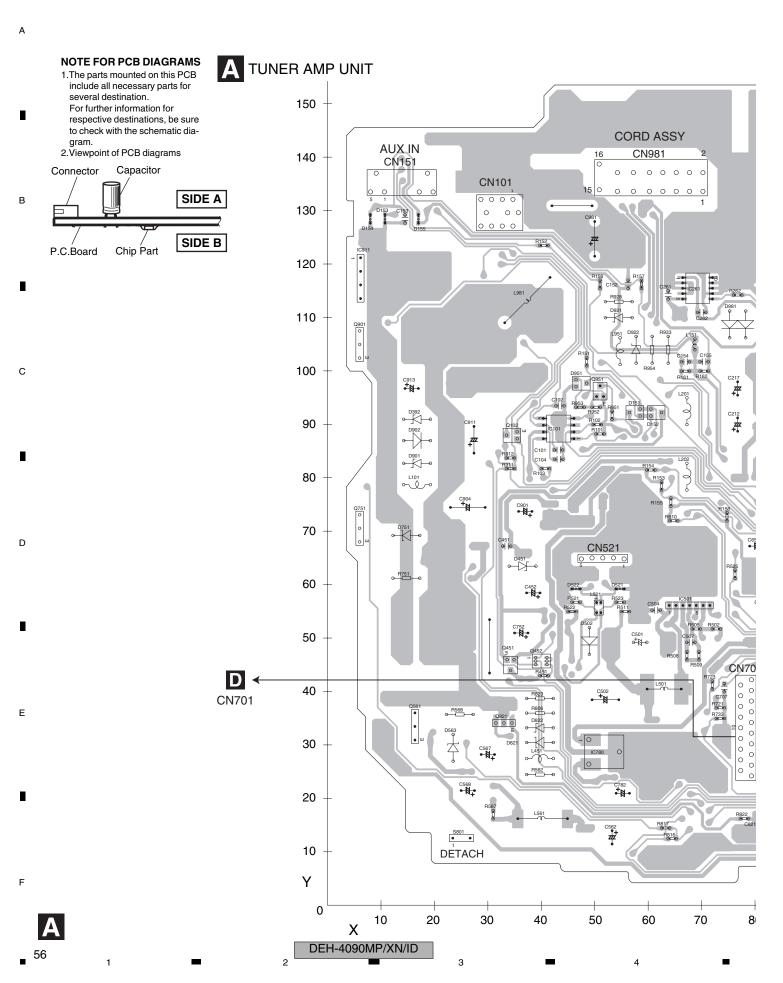
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11. PCB CONNECTION DIAGRAM 11.1 TUNER AMP UNIT



5 - 6 - 7 - 8

SIDE A

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RCA CN301 00000000 0000000000000 **ANTENNA** C305 C363 C362 • -C302 C217 C410 FM/AM TUNER UNIT C931 C408 C407 C432 C434 O IC431 C CN1950 CN801 **FRONT** 150 70 100 130 140 160 170 80 90 110 120 DEH-4090MP/XN/ID

A

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A TUNER AMP UNIT

F A

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11.2 KEYBOARD UNIT

B KEYBOARD UNIT

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160 LIST 150 140 CLOCK 130 120 110 100 - 6 - 8 - 2 COMP/BMX RPT/LOCAL + 8 20 MULTI CONTROL DISP/BACK/SCROLL 40 + 8 - 2 BAND/ESC SRC/OFF 9 ×

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DEH-4090MP/XN/ID

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SIDE A

B

В

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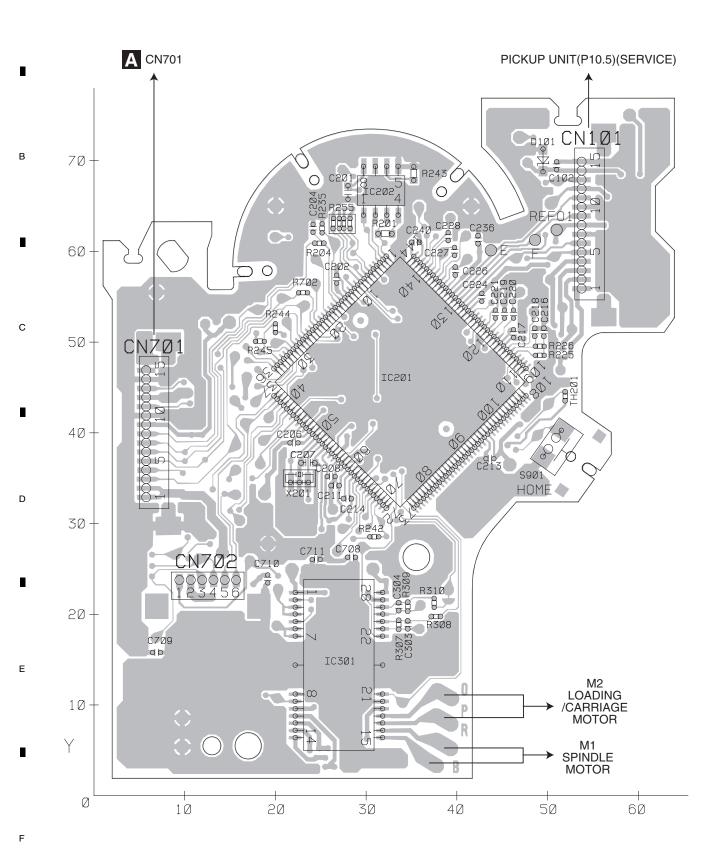
Ε

B KEYBOARD UNIT

11.3 CD CORE UNIT(S10.5COMP2)

D CD CORE UNIT(S10.5COMP2)

SIDE A

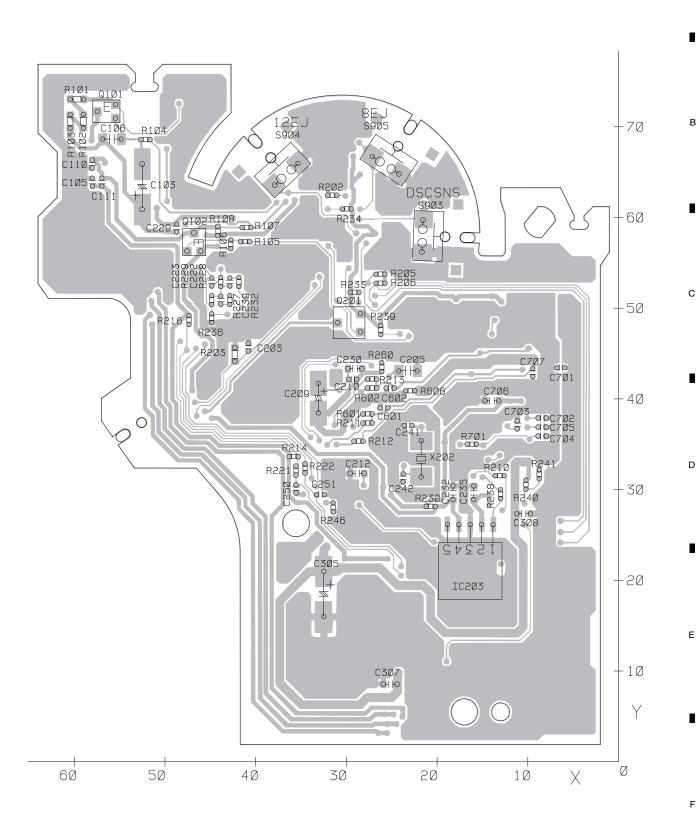


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DEH-4090MP/XN/ID

D CD CORE UNIT(S10.5COMP2)

SIDE B



D

DEH-4090MP/XN/ID 7

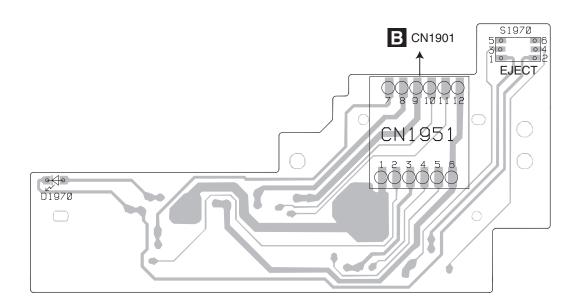
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11.4 PANEL UNIT

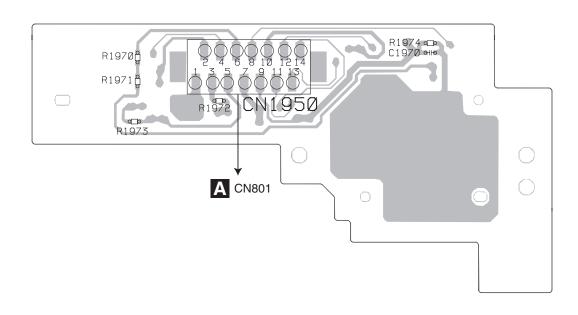


SIDE A



C PANEL UNIT

SIDE B



C

DEH-4090MP/XN/ID

12. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

 $RS1/\bigcirc S\bigcirc\bigcirc\bigcirc J, RS1/\bigcirc\bigcirc S\bigcirc\bigcirc\bigcirc J$

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

Circ	uit Symbol and No.	Part No.	<u>Circ</u>	cuit Symbol and No.	Part No.
	mber: QWM3017(I		Q 821	(A,33,36) Transistor	2SD1767
	•	•	Q 823	(B,33,39) Transistor	RT3T22M
Unit Nur	mber: QWM3028(I	UR)		(5.5-5-)	-01/1
Unit Nar	ne : Tuner Amp	Unit	Q 891	(B,97,28) Transistor	2SA1576A
Utilit ival	ne . Turiei Amp	Offic	Q 892 Q 901	(B,93,21) Chip Transistor (A,7,105) Transistor	DTC114EUA 2SD2396
Unit Nur	mber:		Q 901 Q 902	(B,29,80) Transistor	RT3T22M
I I a ! A A I a a		1!1	Q 921	(B,51,99) Transistor	RT3CLLM
Unit Nar	ne : Keyboard l	Init		, ,	
Unit Nur	mber: CWM8758		Q 931	(B,133,77) Chip Transistor	DTC114EUA
			D 153	(A,11,128) Diode	MALS068X
Unit Nar	me : Panel Unit		D 154	(A,8,128) Diode	MALS068X
Unit Nur	mber: CWX3514		D 155 D 351	(A,17,128) Diode (A,93,102) Diode	MALS068X 1SR139-400
			D 331	(A,95,102) Diode	1311139-400
Unit Nar	me : CD Core Un	it(S10.5COMP2)	D 352	(A,90,102) Diode	1SR139-400
			D 381	(A,140,77) Diode	1SS133
			D 391	(A,135,70) Diode	MC2848-11
Λ			D 392	(A,17,91) Diode	HZS9L(A2)
Α			D 561	(B,49,17) Diode	RB551V-30
Unit Nur	mber: QWM3017(I	D)	D 563	(A,24,29) Diode	MTZJA10(B)
Unit Number: QWM3028(UR)		D 751	(A,15,69) Diode	MTZJA8R2(B)	
	•	•	D 801	(B,111,31) Diode	MC2850-11
Unit Name : Tuner Amp Unit		D 804	(B,125,28) Diode	MC2848-11	
MISCELLANEOUS		D 805	(B,130,28) Diode	MC2846-11	
WIISCELL	ANEOUS			(4.45.55) 51.4	
IC 201	(B,107,90) IC	PML018A	D 821	(A,40,30) Diode	MTZJA10(B)
IC 351	(A,105,140) IC	PAL007C	D 901 D 902	(A,17,83) Diode (A,17,87) Diode	HZS6L(B1) 1SR139-400
IC 431	(A,152,27) IC	NJM2885DL1-33	D 902 D 921	(A,55,110) Diode	HZS7L(A1)
IC 561	(B,39,19) IC	NJM2360M	D 922	(A,58,104) Diode	HZS7L(C3)
IC 601	(A,117,55) IC	PEG404A	-	(,==, = ,	- ()
10.054	(4.00.50) 10	0.0000000000000000000000000000000000000	D 931	(A,140,74) Diode	1SS133
IC 651 IC 780	(A,93,52) IC	S-80835CNMC-B8U	D 981	(A,75,109) Diode	1SR139-400
IC 760	(A,54,29) IC (A,6,121) IC	NJM2885DL1-33 NJM2388F84	D 982	(A,78,109) Diode	1SR139-400
Q 302	(B,138,127) Transistor	RT3C99M	ZNR401	(B,164,114) Surge Protecto	
Q 303	(B,162,129) Transistor	RT3C99M	L 201	(A,67,92) Ferri-Inductor	LAU4R7K
			L 202	(A,67,80) Ferri-Inductor	LAU100K
Q 351	(A,143,93) Chip Transistor		L 401	(B,156,98) Chip Coil	LCTAW4R7J2520
Q 381	(A,139,100) Transistor	RT3T22M	L 402	(A,148,90) Inductor	LAU1R0K
Q 391	(B,25,92) Transistor	2SC4081	L 403	(A,152,48) Inductor	LAU1R0K
Q 561 Q 562	(A,16,33) Transistor (B,30,33) Transistor	2SD1858 RT3T22M	L 561	(A,40,16) Inductor	CTF1660
Q 302	(D,00,00) Halisisioi	TITOTZZIVI	1 600	(A OF CO) Formi Industry	I 411400K
Q 751	(A,7,71) Transistor	2SD2396	L 602 L 891	(A,85,60) Ferri-Inductor (A,100,23) Ferri-Inductor	LAU100K LAU100K
Q 752	(B,23,58) Transistor	RT3T22M	L 981	(A,32,108) Choke Coil 600	
Q 801	(A,104,26) Transistor	RT1N431M	X 601	(A,101,54) Crystal Resonato	
				, , , , , , , , , , , , , , , , , , ,	

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	Circ	cuit Symbol and No.	Part No.	<u>Ci</u>	3 rcuit Symbol and No.	Part No.
	S 801	(A,25,10) Switch(DETACH)	CSN1039	R 412	(B,128,49)	RS1/16S681J
		,		R 413	(B,133,51)	RS1/16S681J
	 LFU301	(B,127,135) Fuse 3 A	CEK1286	R 562	(A,40,24)	RD1/4PU472J
Α	BZ601	(A,137,24) Buzzer	CPV1062			
^	ANT401	(A,169,127) Antenna Jack		R 563	(B,31,16)	RS1/16S102J
	\triangle	Fuse 10 A	YEK5001	R 564	(B,29,17)	RS1/16S821J
				R 565	(A,110,34)	RS1/16S0R0J
	RESISTO	<u>DRS</u>		R 566	(B,33,22)	RS1/10SR821J
				R 567	(A,31,17)	RS1/16S1R0J
_	R 155	(A,64,75)	RS1/16S104J			
	R 158	(A,75,73)	RS1/16S104J	R 568	(A,25,36)	RD1/4PU681J
	R 159	(B,123,79)	RS1/16S101J	R 601	(B,117,67)	RS1/16S473J
	R 160	(B,85,84)	RS1/16S101J	R 602	(B,122,64) (ID)	RS1/16S473J
	R 161	(A,67,100)	RS1/16S223J	R 603	(A,96,59)	RS1/16S0R0J
				R 604	(B,100,60)	RS1/16S0R0J
	R 162	(A,71,100)	RS1/16S223J	R 605	(B,123,57)	RS1/16S104J
В	R 165	(B,78,83)	RS1/16S102J	R 606	(B, 123,57) (B, 108,62)	RS1/16S473J
	R 201	(B,119,89)	RS1/16S102J	R 608	(B, 100,02) (B, 137,29)	RS1/16S102J
	R 202	(B,124,90)	RS1/16S102J	R 610	(A,65,72)	RS1/16S102J
	R 203	(B,118,92)	RS1/16S102J	R 641	(A,129,43)	RS1/16S104J
	D 204	(P. 50.97)	DC1/16C0D0 I	11 041	(71,120,40)	1101/10010-10
	R 204	(B,52,87) (B,119,97)	RS1/16S0R0J	R 652	(A,91,57)	RS1/16S822J
	R 205		RS1/16S101J	R 653	(A,94,57)	RS1/16S102J
	R 206 R 207	(B,103,106) (B,124,95)	RS1/16S101J RS1/16S101J	R 710	(B,85,32)	RS1/16S102J
	R 208	,	RS1/16S101J	R 716	(B,85,30)	RS1/16S102J
	n 200	(B,89,95)	NS1/1031013	R 721	(A,74,37)	RS1/16S104J
	R 209	(B,118,94)	RS1/16S101J		(, ,, ,, ,, ,	1101,1001010
	R 210	(B,91,91)	RS1/16S101J	R 722	(B,86,41)	RS1/16S472J
С	R 303	(A,140,124)	RS1/16S821J	R 723	(A,72,41)	RS1/16S104J
_	R 304	(B,131,127)	RS1/16S821J	R 724	(B,84,42)	RS1/16S472J
	R 305	(A,157,123)	RS1/16S821J	R 725	(B,83,43)	RS1/16S104J
	11 000	(71,107,120)	110 17 10002 10	R 726	(A,96,36)	RS1/16S221J
	R 306	(B,149,115)	RS1/16S821J			
	R 309	(B,139,120)	RS1/16S472J	R 728	(A,96,42)	RS1/16S221J
	R 310	(B,133,128)	RS1/16S472J	R 729	(A,96,37)	RS1/16S221J
•	R 311	(B,167,128)	RS1/16S472J	R 730	(B,90,40)	RS1/16S221J
	R 312	(B,165,124)	RS1/16S472J	R 731	(B,71,34)	RS1/16S221J
		,		R 733	(A,74,35)	RS1/16S104J
	R 315	(A,142,124)	RS1/16S223J			
	R 316	(B,128,132)	RS1/16S223J	R 751	(A,15,61)	RD1/4PU561J
	R 317	(A,157,126)	RS1/16S223J	R 801	(B,124,24)	RS1/16S222J
D	R 318	(B,162,134)	RS1/16S223J	R 804	(B,127,23)	RS1/16S222J
	R 320	(B,142,123)	RS1/16S0R0J	R 805	(B,114,25)	RS1/16S222J
				R 806	(A,40,36)	RD1/4PU391J
	R 321	(B,136,132)	RS1/16S0R0J		(5 (55 55)	
	R 351	(B,117,110)	RS1/16S0R0J	R 807	(B,106,25)	RS1/16S222J
_	R 352	(B,119,111)	RS1/16S0R0J	R 808	(B,111,25)	RS1/16S473J
	R 353	(B,122,111)	RS1/16S0R0J	R 811	(B,125,33)	RS1/16S102J
	R 354	(B,114,110)	RS1/16S0R0J	R 813 R 815	(B,108,25)	RS1/16S222J RS1/16S473J
	D 050	(4.440.05)	D01/4004001	n 015	(B,111,28)	no 1/1004/3J
	R 359	(A,146,85)	RS1/16S103J	R 816	(A,65,12)	RS1/16S102J
	R 360	(A,139,95)	RS1/16S103J	R 817	(A,63,12) (A,63,14)	RS1/16S1023
	R 361	(A,139,88)	RS1/16S153J	R 821	(A,83,17)	RS1/16S472J
Е	R 362	(A,139,93)	RS1/16S331J	R 822	(A,78,16)	RS1/16S1R0J
	R 363	(B,107,113)	RS1/16S0R0J	R 823	(A,40,39)	RD1/4PU471J
	R 381	(A 142 100)	RS1/16S102J	11 020	(71, 10,00)	1151/11 01/10
	R 391	(A,143,102)	RS1/16S102J RS1/16S223J	R 831	(A,113,21)	RS1/16S0R0J
	R 392	(B,25,87)	RS1/16S683J	R 891	(B,101,21)	RS1/16S222J
	R 393	(B,22,92) (B,25,94)	RS1/16S683J	R 892	(B,96,25)	RS1/16S102J
	R 401	(B,159,71)	RS1/16S681J	R 893	(B,94,28)	RS1/16S473J
_	11 401	(0,139,71)	1131/1030013	R 902	(B,12,83)	RS1/16S822J
	R 403	(B,156,81)	RS1/16S681J		, ,	
	R 404	(B,156,84)	RS1/16S681J	R 903	(B,34,80)	RS1/16S222J
	R 405	(B,156,86)	RS1/16S681J	R 911	(A,34,82)	RS1/16S102J
	R 406	(B,157,88)	RS1/16S681J	R 912	(A,34,84)	RS1/16S103J
F	R 407	(B,157,90)	RS1/16S681J	R 921	(B,46,97)	RS1/16S104J
Г	107	(=, ,)		R 922	(B,49,93)	RS1/16S104J
	R 410	(B,152,65)	RS1/16S0R0J		•	
	R 411	(B,143,45)	RS1/16S681J	R 923	(B,45,101)	RS1/16S104J
	•	• • • • • •		R 924	(B,68,100)	RS1/16S103J
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	66	1 =	2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3	4
_		- -			-	•

	5	6		7	8	
Ci	rcuit Symbol and No.	Part No.	Circ	cuit Symbol and No.	Part No.	
		RS1/16S473J	C 569		CKSRYB104K16	
R 925	(B,68,102)			(B,21,29)		
R 926	(B,58,99)	RS1/16S473J	C 601	(B,115,63)	CCSRCH101J50	
R 927	(B,48,106)	RS1/16S472J	C 603	(B,97,57)	CCSRCH220J50	
			C 604	(B,101,48)	CCSRCH180J50	Α
R 928	(A,55,113)	RD1/4PU102J	C 605	(A,88,53)	CEJQ4R7M35	, ,
R 931	(B,131,81)	RS1/16S104J				
R 932	(B,135,82)	RS1/16S103J	C 607	(B,90,53)	CKSRYB105K10	
R 933	(A,64,104)	RD1/4PU102J	C 609	(B,76,64)	CKSRYB105K10	
11 300	(A,04,104)	1101/41 01020	C 651		CEJQ2R2M50	
04840	ITODO			(A,80,67)		
<u>CAPAC</u>	<u>IIORS</u>		C 702	(B,85,35)	CKSRYB152K50	_
			C 705	(B,86,28)	CKSRYB152K50	
C 152	(A,56,116)	CKSRYB104K16				
C 154	(A,67,102)	CKSRYB472K50	C 730	(B,65,33)	CKSRYB105K10	
C 155	(A,71,102)	CKSRYB472K50	C 751	(B,45,69)	CKSRYB104K16	
C 201	(B,118,81)	CKSRYB105K10	C 752	(A,36,51)	CEJQ101M16	
C 204	(B,123,85)	CKSRYB224K16	C 753	(B,14,66)	CKSRYB473K50	
0 204	(B, 123,63)	CKSH1B224K10	C 781	(B,58,24)	CKSRYB103K50	_
			0 701	(0,50,24)	OROTTIBIOOROO	В
C 205	(B,118,86)	CKSRYB105K10	0.700	(4.55.04)	OF 10 470M0D0	
C 206	(B,96,81)	CKSRYB105K10	C 782	(A,55,21)	CEJQ470M6R3	
C 207	(B,90,83)	CKSRYB105K10	C 783	(A,82,55)	CEJQ4R7M35	
C 210	(B,96,86)	CKSRYB224K16	C 784	(B,84,52)	CKSRYB105K10	
C 211	(B,90,88)	CKSRYB105K10	C 822	(B,35,29)	CKSRYB472K50	
0	(2,00,00)	0.1011121001110	C 893	(B,100,25)	CKSRYB105K10	
C 010	(4 77 00)	OF 10100M0F		(-,:,	***************************************	
C 212	(A,77,90)	CEJQ100M25	C 901	(A,37,74)	CEJQ470M16	
C 213	(B,81,92)	CKSRYB104K16				
C 214	(A,84,97)	CEJQ470M16	C 902	(B,15,76)	CKSRYB103K50	
C 215	(A,106,102)	CEJQ100M25	C 903	(B,23,83)	CKSRYB472K50	
C 216	(B,72,95)	CKSRYB104K16	C 904	(A,26,74)	CEAT102M16	
	,		C 911	(A,27,87)	CEJQ221M16	
C 217	(A,77,97)	CEJQ470M16				С
C 303	(A,145,117)	CEJQ4R7M35	C 912	(B,20,102)	CKSRYB103K50	
C 304	(A,140,117)	CEJQ4R7M35	C 913	(A,16,97)	CEJQ101M16	
	,		C 914	(B,11,121)	CKSRYB103K50	
C 305	(A,153,119)	CEJQ4R7M35	C 921			
C 306	(A,145,110)	CEJQ4R7M35		(B,48,109)	CKSRYB104K16	
			C 931	(A,140,70)	CEJQ1R0M50	
C 351	(B,117,116)	CKSRYB474K10				
C 352	(B,119,117)	CKSRYB474K10	C 981	(A,50,125) 3 300 μF/16 V	CCH1486	_
C 353	(B,121,127)	CKSRYB474K10	C 982	(B,60,120)	CKSRYB104K16	
C 354	(B,110,114)	CKSRYB474K10				
C 355	(B,117,121)	CKSQYB474K25	Б			
0 333	(D,117,121)	CROQ I D474R25	В			
0.050	(D. 100, 100)	01/00//04741/05	Unit Nu	mbor:		
C 356	(B,120,122)	CKSQYB474K25				D
C 357	(B,121,131)	CKSQYB474K25	Unit Na	me : Keyboard	Unit	D
C 358	(B,114,120)	CKSQYB474K25		•		
C 360	(B,125,127)	CKSQYB225K10	MICCELL	ANIFOLIC		
C 361	(B,106,146)	CKSRYB104K16	MISCELL	<u> ANEOUS</u>		
	, , ,					
C 362	(A,134,111)	CEJQ100M25	IC 1901	(A,77,35) Remote IC	GP1UX51RK	
C 363	(A,134,117)	CEJQ330M10	IC 1902	(B,103,22) IC	PEG411A	Ī
			Q 1902	(B,79,22) Transistor	2SC4081	-
C 364	(B,124,131)	CKSQYB225K10	D 1901	(A,8,37) LED	CL-195PG-CD	
C 381	(A,141,81)	CEJQ220M16	D 1902	(A,8,15) LED	CL-195PG-CD	
C 404	(B,152,52)	CKSRYB103K50	D 1902	(A,0,13) LLD	OL-1931 G-OD	
			D 4000	(4.440.7) 1.50	01 40500 00	
C 405	(B,153,67)	CKSRYB103K50	D 1903	(A,112,7) LED	CL-195PG-CD	
C 406	(B,147,94)	CKSRYB103K50	D 1904	(A,126,7) LED	CL-195PG-CD	
C 407	(A,154,55)	CEJQ470M6R3	D 1905	(A,149,7) LED	CL-195PG-CD	Е
C 408	(A,154,69)	CEJQ470M10	D 1906	(A,22,36) LED	CL-195PG-CD	
	,		D 1907	(A,22,16) LED	CL-195PG-CD	
C 410	(A,148,98)	CEJQ101M16		(, , -,		
			D 1908	(A,61,36) LED	CL-195PG-CD	
C 413	(B,158,65)	CKSRYB474K10				
C 417	(B,127,54)	CCSRCH470J50	D 1909	(A,61,16) LED	CL-195PG-CD	_
C 432	(A,150,38)	CEJQ470M6R3	D 1913	(B,107,12) Diode	1SS355	
C 434	(A,141,36)	CEJQ1R0M50	L 1901	(B,88,29) Inductor	CTF1617	
C 562	(A,53,13)	CEJQ470M25	X 1901	(B,103,15) Radiator 10.0 M	MHz CSS1577	
	, ,,· - /					
C 564	(P. 40.22)	CKSRYB223K50	S 1901	(A,24,12) Push Switch	CSG1155	
C 564	(B,40,23)		S 1902	(A,9,12) Push Switch	CSG1155	
C 565	(B,45,15)	CCSRCH331J50	S 1903	(A,156,7) Push Switch	CSG1155	
C 566	(B,30,25)	CKSRYB104K16	S 1903	(A,9,40) Push Switch	CSG1155	F
C 567	(A,30,28)	CEJQ101M16				
C 568	(A,26,21)	CEJQ470M16	S 1905	(A,129,7) Push Switch	CSG1155	
			0 4000	/A 40.05\ 0	ONTROUNDAME	
			S 1906	(A,40,25) Switch(MULTI-C	ON I ROL)CSX1120	

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	Circ	cuit Symbol and No.	Part No.	Cir	ੂ cuit Symbol and N	lo. Part No.
	· · · · · · · · · · · · · · · · · · ·	-	·	·	-	
	S 1907	(A,24,40) Push Switch	CSG1155	C 1915	(B,83,23)	CKSRYB104K16
	S 1908	(A,115,7) Push Switch	CSG1155	C 1916	(B,82,29)	CKSRYB104K16
	S 1909	(A,59,40) Push Switch	CSG1155	C 1917	(B,101,33)	CKSRYB224K16
Α	S 1910	(A,59,12) Push Switch	CSG1155			
				C 1918	(B,117,31)	CKSRYB105K10
	<u>RESISTO</u>	<u>rs</u>		C 1919	(B,113,12)	CKSRYB104K16
				C 1920	(B,83,26)	CKSRYB103K50
	R 1901	(B,137,40)	RS1/16S222J			
	R 1902	(B,137,38)	RS1/16S222J	C		
_	R 1903	(B,121,12)	RS1/16S473J			
	R 1904	(B,24,10)	RS1/16S151J	Unit Ni	ımber: CWM87	758
	R 1905	(B,152,24)	RS1/16S151J	Unit Na	ıme : Panel l	Init
		,		Omit ite	anic . I diloi c	J.1110
	R 1906	(B,28,10)	RS1/16S151J	MICCELI	LANEOUS	
	R 1907	(B,34,10)	RS1/16S151J	MISCELI	LANEOUS	
	R 1908	(B,152,22)	RS1/16S271J			
В	R 1909	(B,26,10)	RS1/16S121J	D 1970	LED	CL220PGC
	R 1910	(B,155,24)	RS1/16S121J	S 1970	Push Switch(EJECT)	CSG1112
		(,, ,				
	R 1911	(B,30,10)	RS1/16S121J	RESISTO	<u>DRS</u>	
	R 1912	(B,32,10)	RS1/16S121J			
	R 1913	(B,155,22)	RS1/16S271J	R 1970		RS1/16S101J
	R 1914	(B,66,19)	RS1/16S102J	R 1971		RS1/16S101J
				R 1972		RS1/16S0R0J
	R 1916	(B,16,22)	RS1/16S333J	11 1072		1101/10001100
	R 1917	(B,34,14)	RS1/16S333J	CAPACI	TORS	
	R 1918	(B,13,22)	RS1/16S822J	<u>OAI AOI</u>	10110	
		,		0.4070		01/07/704041/40
	R 1919	(B,143,10)	RS1/16S822J	C 1970		CKSRYB104K16
_	R 1920	(B,69,21)	RS1/16S103J			
С	R 1921	(B,34,16)	RS1/16S822J	D		
	R 1922	(B,13,24)	RS1/16S332J	Unit Nเ	ımber: CWX35	514
	R 1923	(B,117,10)	RS1/16S332J			
	R 1924	(B,48,15)	RS1/16S332J	Unit Na	ime : CD Core	e Unit(S10.5COMP2)
	R 1925	(B,16,24)	RS1/16S222J			
	R 1926	(B,66,10)	RS1/16S222J	MISCELI	LANEOUS	
	11 1320	(5,00,10)	1101/1002220			
	R 1927	(B,69,20)	RS1/16S103J	IC 201	(A,34,46) IC	PE5547A
	R 1928	(B,51,15)	RS1/16S222J	IC 301	(A,27,14) IC	BA5839FP
				Q 101	(B,56,72) Transistor	2SA1577
	R 1929	(B,69,23)	RS1/16S103J			
	R 1930	(B,69,17)	RS1/16S103J	Q 102	(B,47,57) Chip Trans	sistor 2SB1689
D	R 1931	(B,79,17)	RS1/16S682J	V 001	(A 00 05) Caramia Da	
		(5 -5 45)	50.44.50.555	X 201		esonator 16.934 MHz CSS1603
	R 1932	(B,79,19)	RS1/16S3902F	S 901	(A,53,37) Switch(HC	
	R 1933	(B,76,20)	RS1/16S6802F	S 903	(B,19,58) Switch(DS	
	R 1934	(B,82,30)	RS1/16S392J	S 904	(B,38,67) Switch(12I	
	R 1935	(B,69,24)	RS1/16S101J	S 905	(B,24,68) Switch(8E	J) CSN1068
	R 1936	(B,64,32)	RS1/16S103J			
				RESISTO	<u>DRS</u>	
	R 1937	(B,68,31)	RS1/16S2R2J			
	R 1938	(B,104,37)	RS1/16S103J	R 101	(B,60,73)	RS1/10SR2R4J
	R 1940	(B,94,21)	RS1/16S473J	R 102	(B,59,71)	RS1/10SR2R4J
	R 1941	(B,87,24)	RS1/16S2202D	R 103	(B,60,71)	RS1/10SR2R7J
	R 1942	(B,87,23)	RS1/16S3002D	R 104	(B,52,69)	RS1/16SS222J
	- -	· · · /	· -	R 105	(B,41,57)	RS1/16SS102J
Е	R 1944	(B,99,16)	RS1/16S473J	11 103	(0,71,01)	1101/10001020
	R 1945	(B,102,28)	RS1/16S101J	D 107	(D 41 50)	DC1/16CC10E I
	R 1946	(B,112,31)	RS1/16S101J	R 107	(B,41,59)	RS1/16SS105J
				R 202	(B,32,62)	RS1/16SS473J
	R 1947	(B,91,21)	RS1/16S101J	R 203	(B,42,45)	RS1/16S473J
	R 1948	(B,107,15)	RS1/16S473J	R 204	(A,25,61)	RS1/16SS221J
	D 1040	/D 111 15\	RAB4C101J	B	(D.00.50)	D04/40004044
-	R 1949	(B,111,15)		R 206	(B,26,53)	RS1/16SS104J
	R 1950	(B,107,13)	RS1/16S154J	R 210	(B,13,32)	RS1/16SS102J
	R 1952	(B,59,21)	RS1/16S102J	R 214	(B,36,34)	RS1/16SS472J
	R 1953	(B,63,15)	RS1/16S102J	R 216	(B,47,49)	RS1/16SS472J
	R 1957	(B,69,18)	RS1/16S103J	R 221	(B,36,32)	RS1/16SS103J
F	CAPACIT	<u>ORS</u>		R 222	(B,35,32)	RS1/16SS103J
				R 225	(A,49,49)	RS1/16SS103J
	C 1913	(B,69,35)	CKSYF106Z10	R 226	(A,49,50)	RS1/16SS393J
	C 1914	(B,99,14)	CKSRYB103K50	R 227	(B,45,51)	RS1/16SS562J
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	<u>Circu</u>	uit Symbol and No.	<u>Part No.</u>		Circ	uit Symbol and No.	Part No.	
R 2	228	(B,42,53)	RS1/16SS122J	C 70 C 71		(B,8,36) (A,25,26)	CKSSYB102K50 CKSSYB104K10	
R 2	229	(B,44,53)	RS1/16SS472J					
R 2	230	(B,21,28)	RS1/16SS0R0J	Mis	cella	neous Parts List		Α
R 2	232	(B,43,51)	RS1/16SS122J					7
R 2	233	(B,29,52)	RS1/16SS103J			Pickup Unit(P10.5)(Service	a) CYY10/12	
R 2	234	(B,30,61)	RS1/16SS473J	M 1		Motor Unit(SPINDLE)	CXC7134	
R 2	235	(A,25,63)	RS1/16SS473J	M 2		Motor Unit(LOADING/CAR	RIAGE) CXC4026	
R 2		(B,26,48)	RS1/16SS473J					
R 2		(B,10,31)	RS1/16SS473J					
R 2	241	(B,9,32)	RS1/16SS103J					
R 2	244	(A,20,52)	RS1/16SS473J					
R 2	255	(A,27,63)	RAB4CQ104J					
R 3		(A,34,19)	RS1/16SS183J					
R 3	308	(A,38,20)	RS1/16SS183J					В
R 3	309	(A,35,21)	RS1/16SS183J					_
R 3	310	(A,38,21)	RS1/16SS183J					
R 6		(B,28,38)	RS1/16SS0R0J					
R 6		(B,27,41)	RS1/16SS0R0J					
R 6		(B,23,41)	RS1/16SS0R0J					
R 7		(B,16,35)	RS1/16SS221J					
R 7	702	(A,23,55)	RS1/16SS221J					
CA	PACITO	<u>DRS</u>						
C 1	106	(B,56,69)	CKSQYB475K6R3					С
C 2		(A,27,57)	CKSSYB104K10					_
C 2		(A,24,63)	CKSSYB103K16					
C 2		(B,23,43)	CKSQYB475K6R3					
C 2		(A,22,39)	CKSSYB104K10					
C 2		(A,24,37)	CKSRYB104K16					
C 2		(B,33,40)	CEVW220M6R3					
C 2		(B,29,42)	CKSSYB104K10					
C 2	211	(A,27,34)	CKSSYB104K10					
C 2	212	(B,29,32)	CKSRYB104K16					
C 2	213	(A,44,37)	CKSSYB104K10					
C 2	214	(A,28,33)	CKSSYB104K10					D
C 2	216	(A,50,51)	CKSSYB332K50					
C 2	217	(A,46,51)	CKSSYB104K10					
C 2	218	(A,49,51)	CKSSYB473K10					
C 2		(A,45,53)	CKSSYB104K10					
C 2		(A,46,53)	CKSSYB182K50					
C 2		(A,44,53)	CKSSYB104K10					
C 2		(B,43,53)	CCSSCH560J50					
C 2	223	(B,45,53)	CCSSCH4R0C50					
C 2		(A,43,55)	CKSSYB104K10					
C 2		(A,40,58)	CCSSCH680J50					
C 2		(A,40,60)	CCSSCH470J50					Е
C 2		(A,39,62)	CKSSYB103K16					
C 2	229	(B,49,59)	CKSSYB104K10					
C 2		(A,42,61)	CKSSYB104K10					
C 2		(B,44,51)	CCSSCH220J50					
C 2		(A,35,61)	CKSSYB104K10					
C 2		(B,36,30)	CKSSYB102K50					_
C 2	251	(B,33,29)	CKSSYB102K50					
C 3		(A,35,19)	CKSSYB472K25					
C 3		(A,34,21)	CKSSYB223K16					
СЗ		(B,25,9)	CKSRYB104K16					F
С 3		(B,10,27)	CKSRYB105K10					
C 7	703	(B,11,37)	CCSSCH101J50					

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